

Figure 1

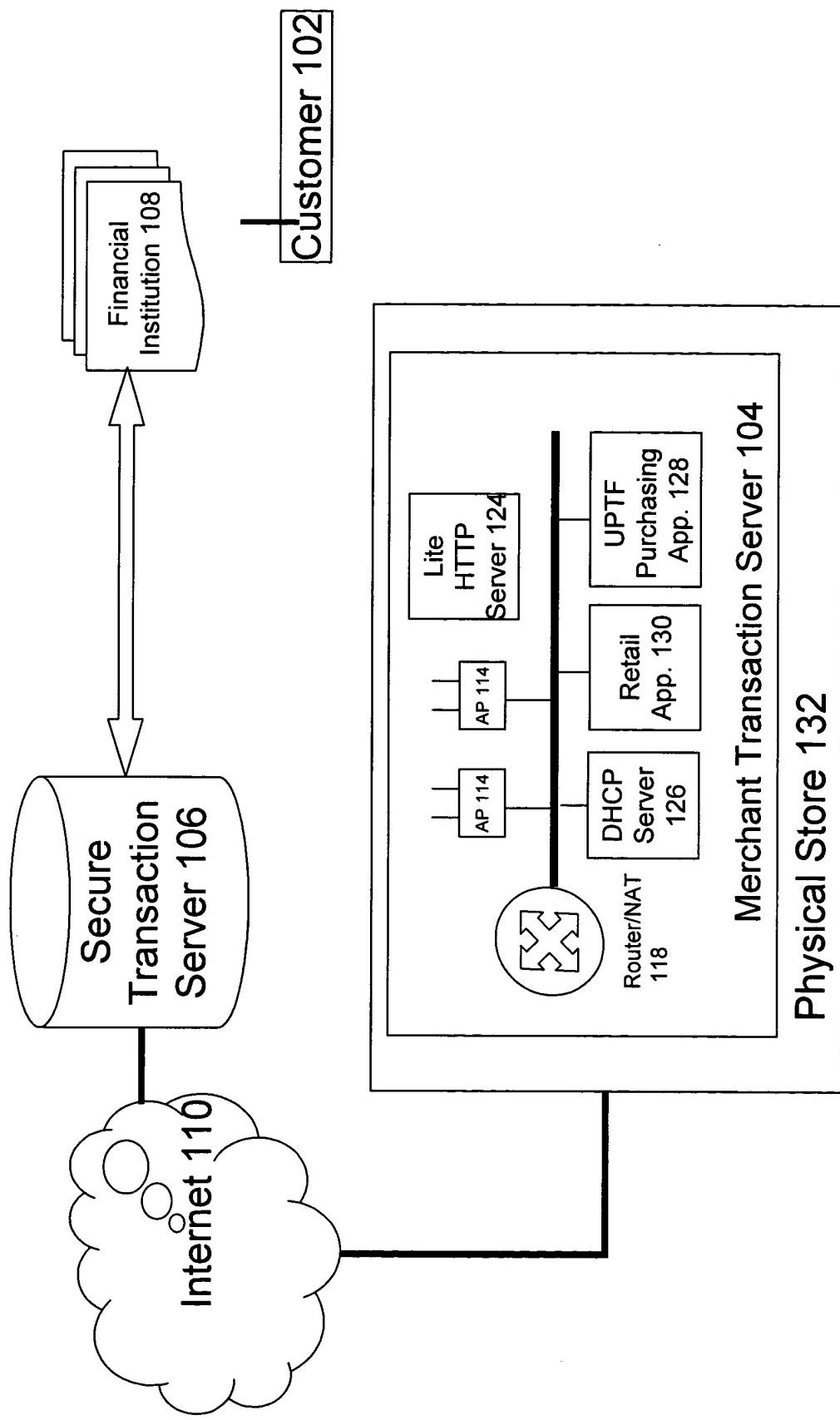


Figure 2

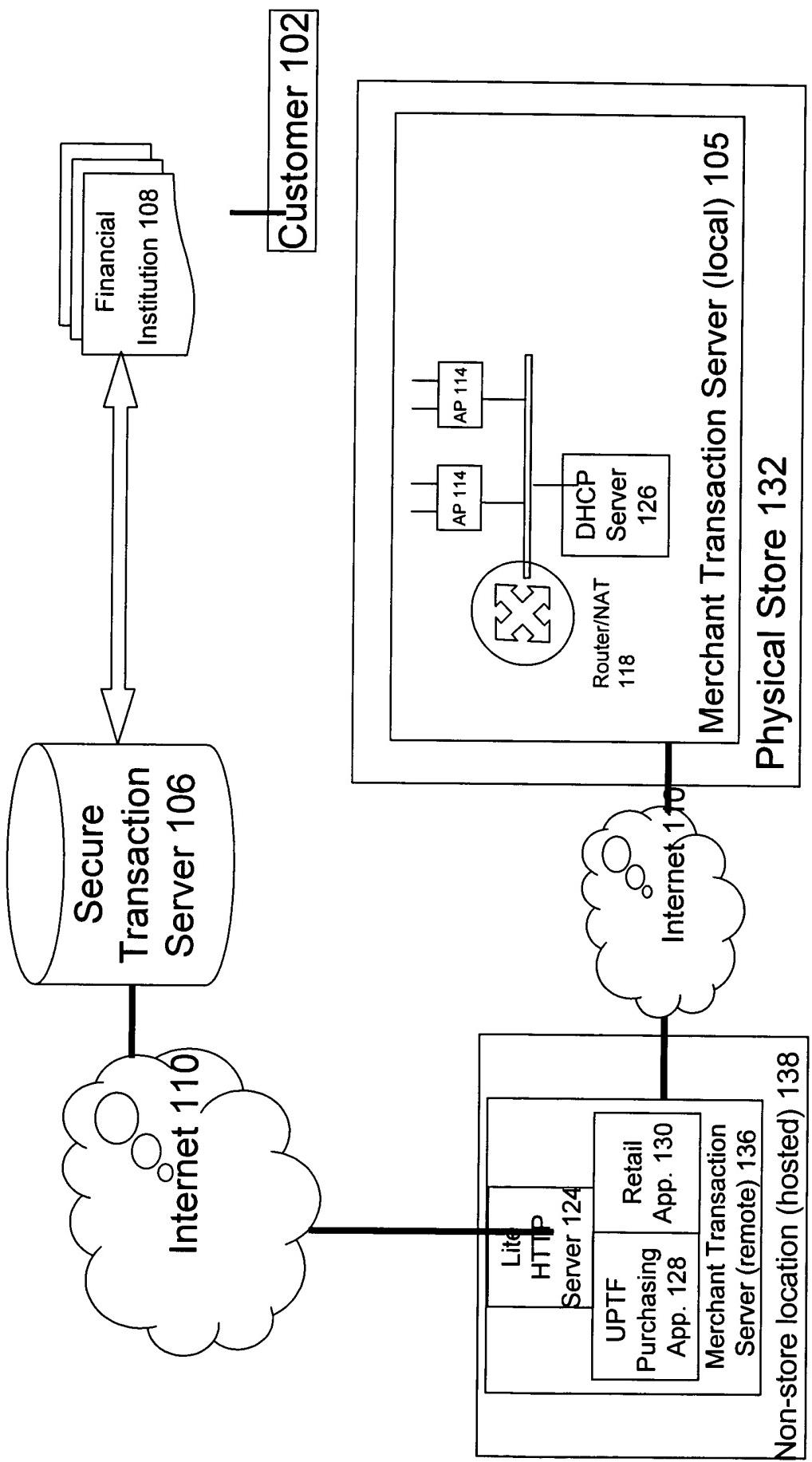


Figure 3

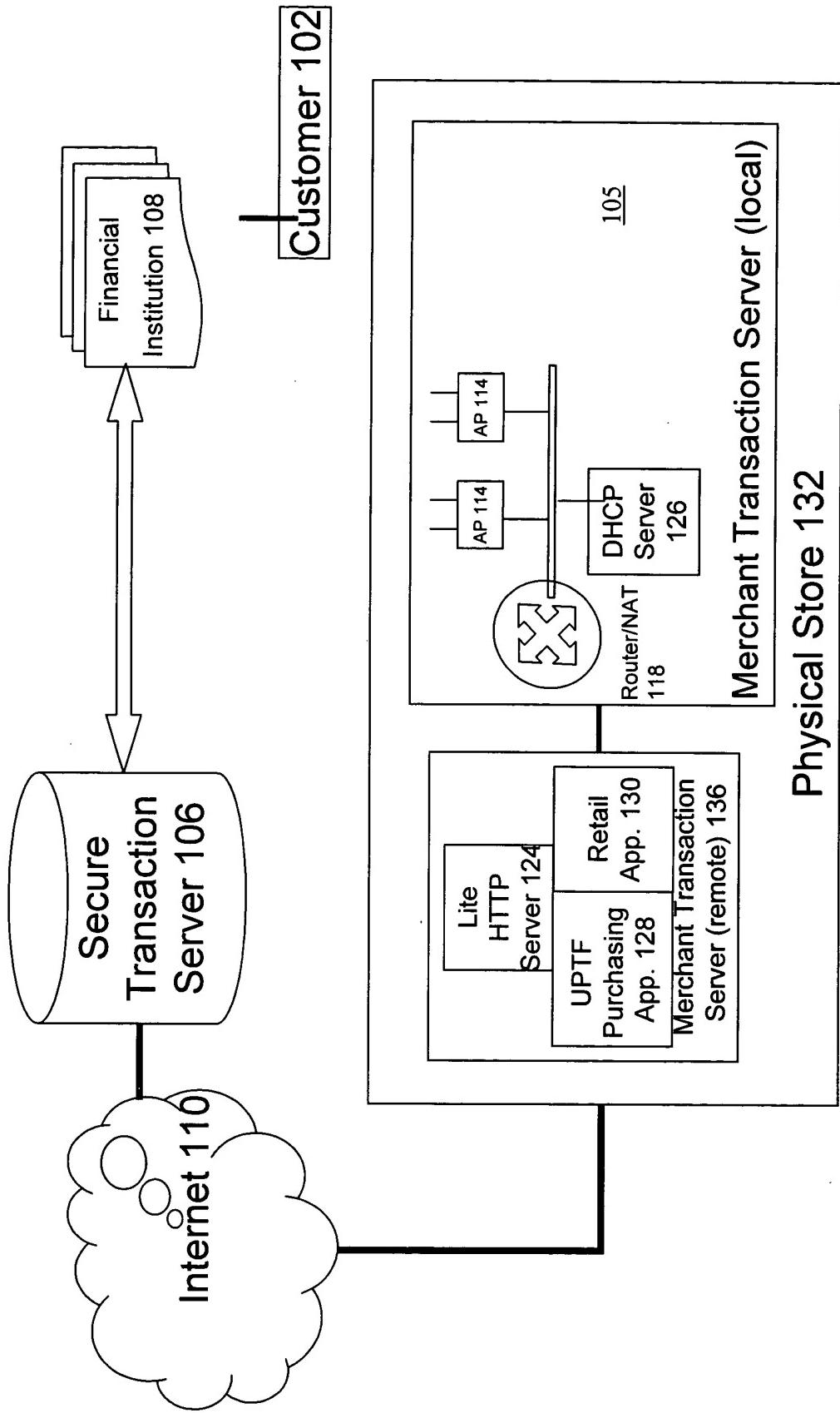


Figure 4

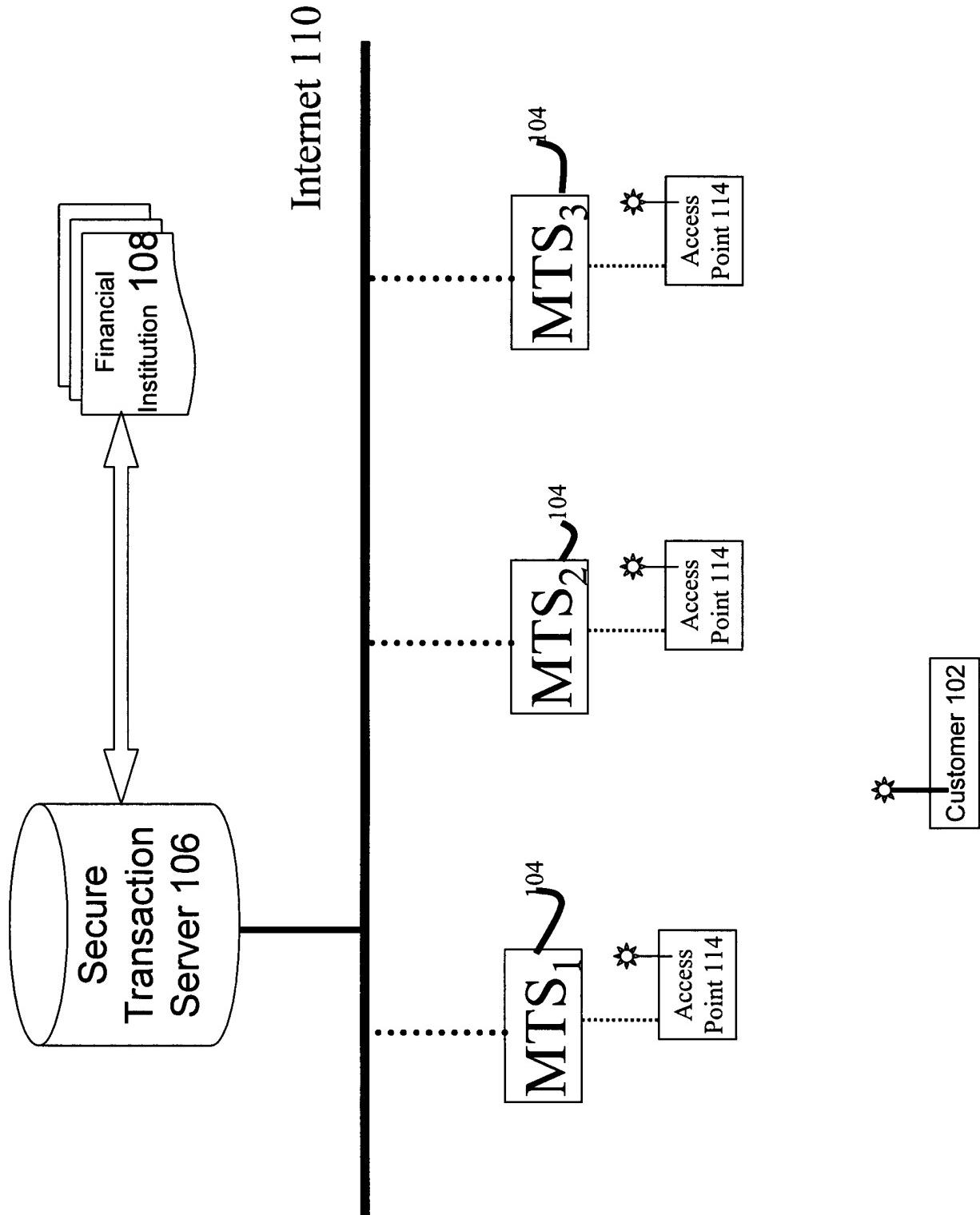


Figure 5

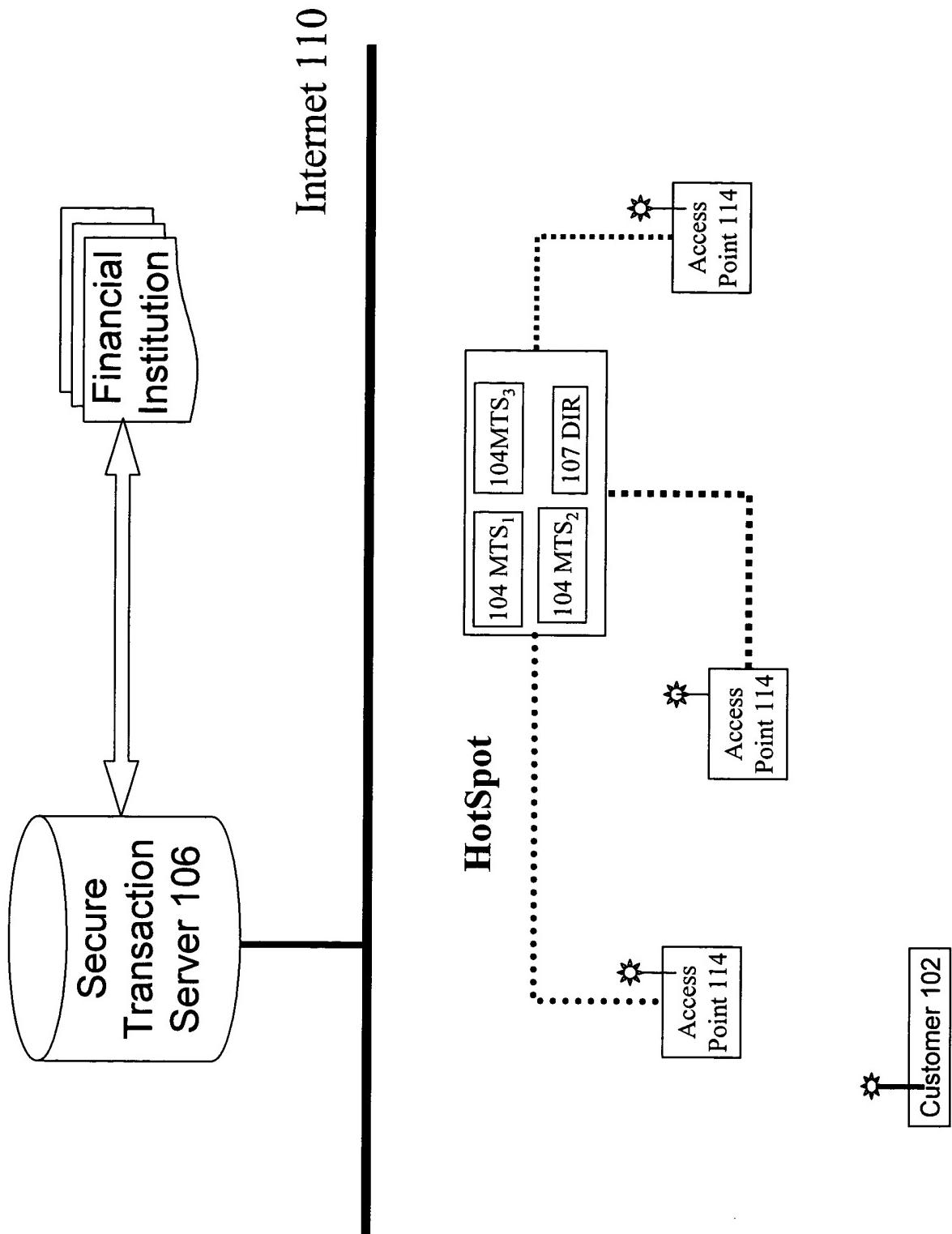


Figure 6

200

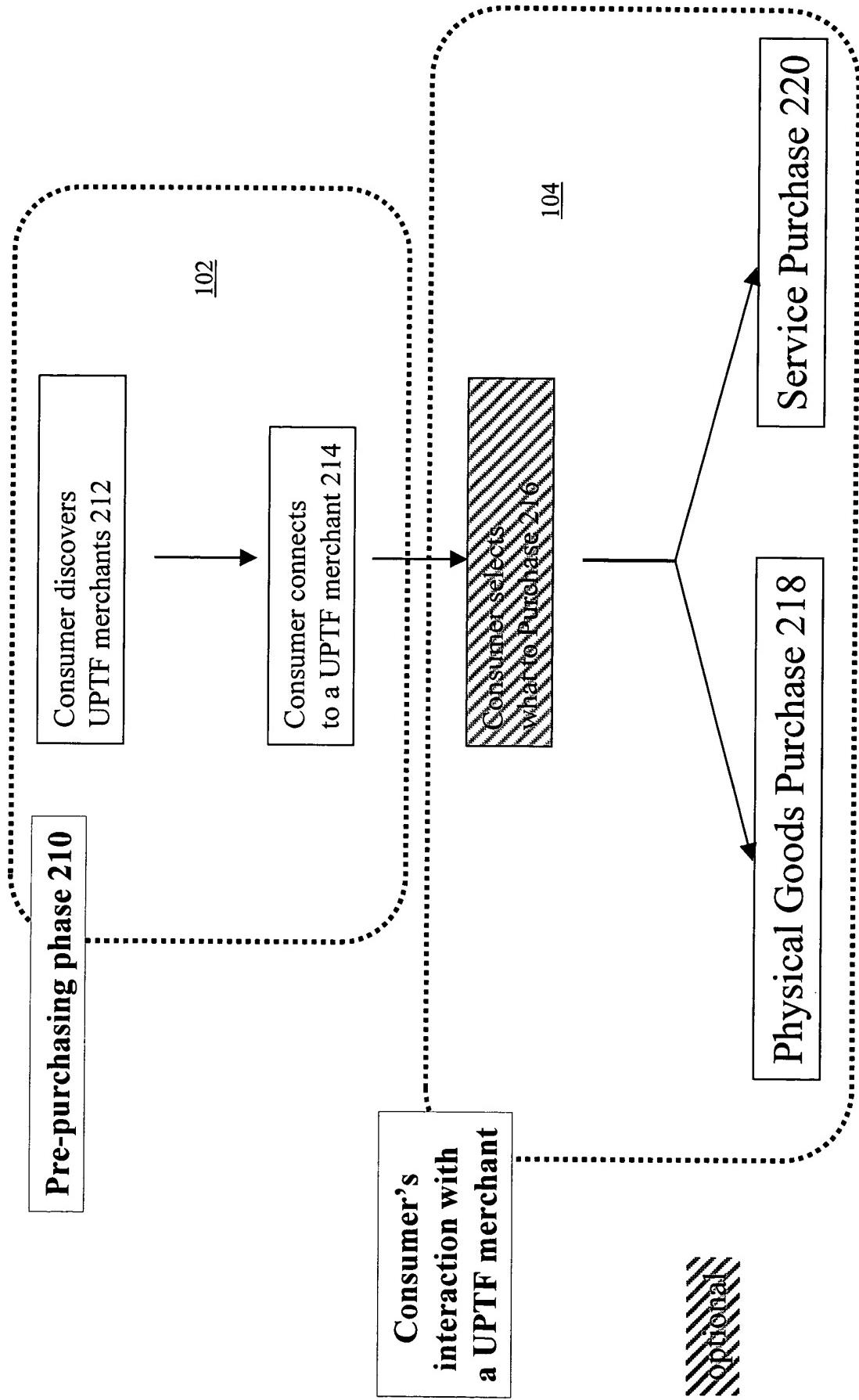


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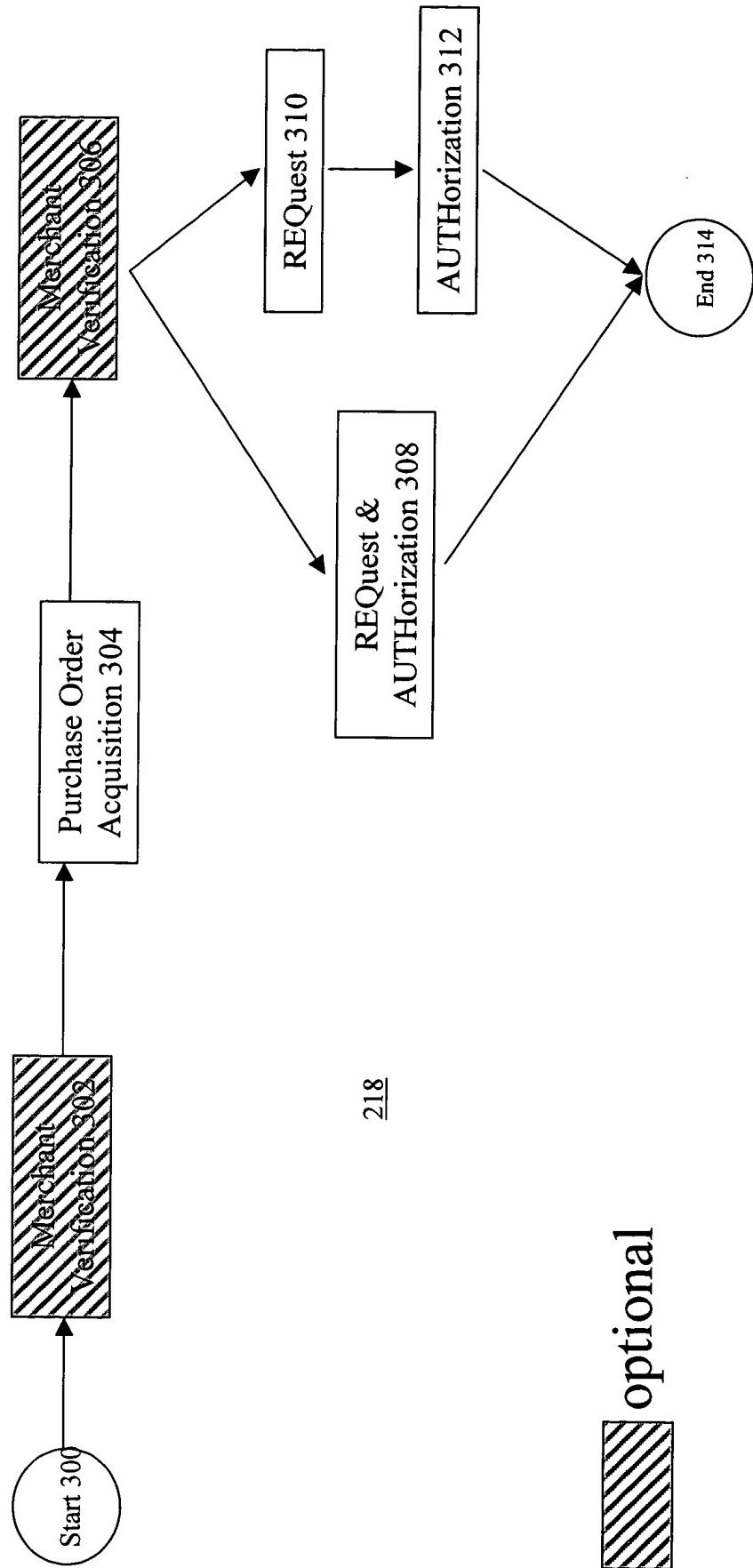


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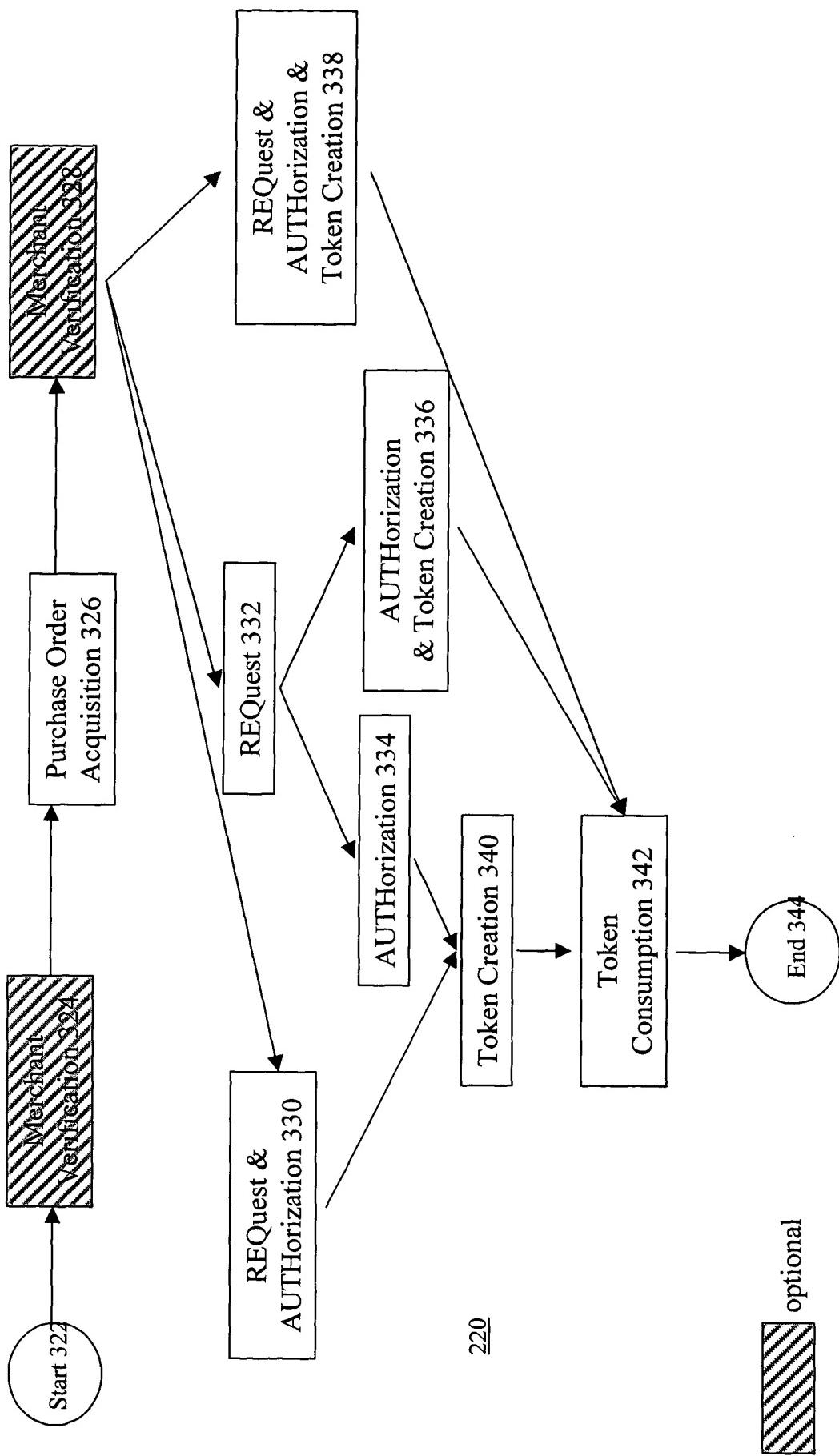


Figure 9

Consumer 102

Merchant 104

STS 106

350

Consumer requests a
Purchase Order
from merchant

GeneratePurchaseOrder

Merchant generates a
Purchase Order
for a transaction proposal and
returns it to consumer

Purchase Order

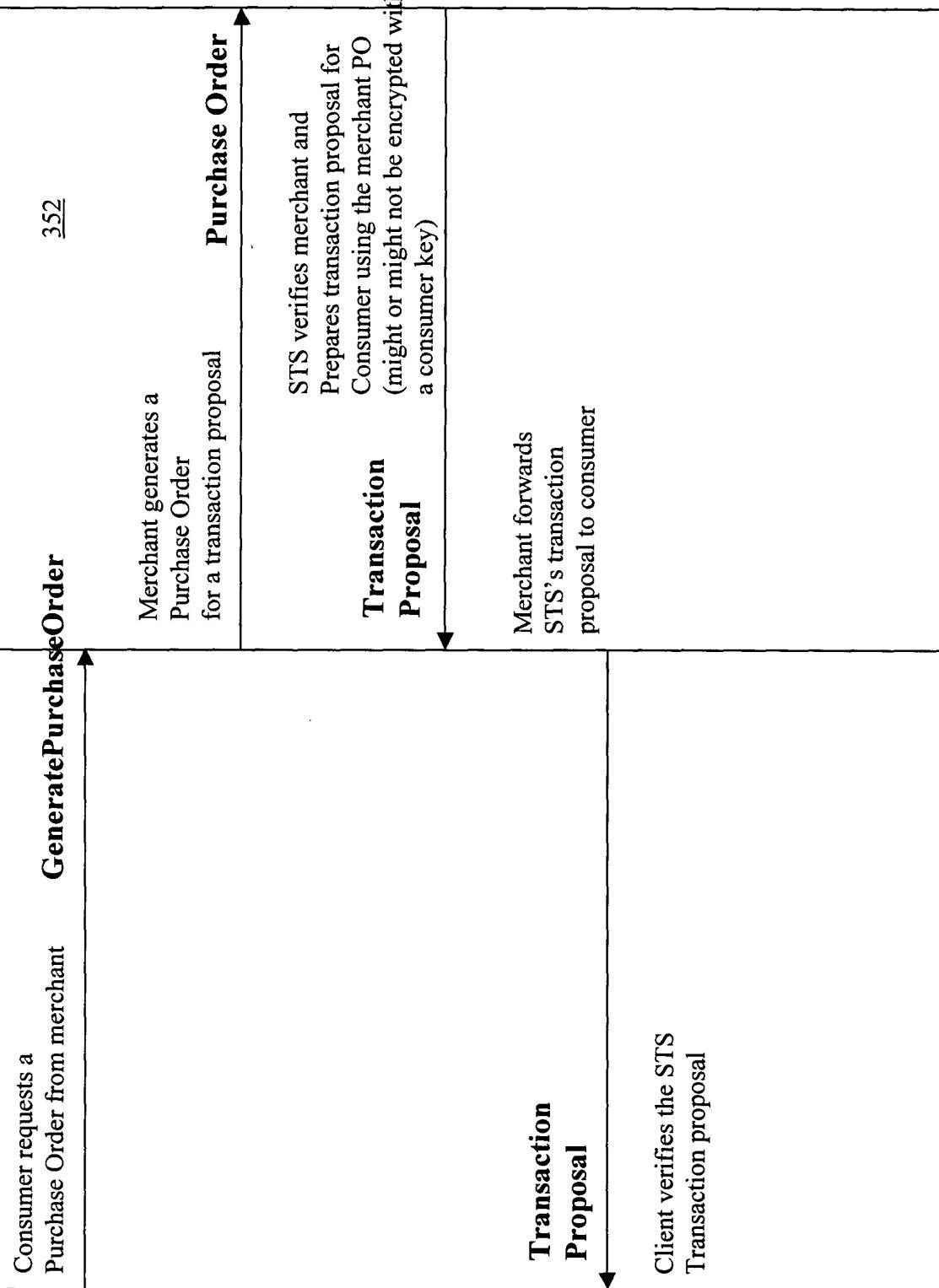
**Purchase Order Acquisition -
Direct Purchase Order Exchange**

Figure 10

STS 106

Merchant 104

Consumer 102



Purchase Order Acquisition – Purchase Order Request

Figure 11

STS 106

Merchant 104

Consumer 102

- Consumer requests a Purchase Order from merchant
- Consumer creates a REQuestPO_C message to STS (SUCCESS and FAILURE codes in the content)

**GeneratePurchaseOrder +
REQuestPO_C**

354

**Purchase Order +
REQuestPO_C**

Merchant generates a
Purchase Order
for a transaction proposal

STS verifies merchant and
Prepares transaction proposal for
Consumer using the merchant PO
(might or might not be encrypted with
a consumer key)

**Transaction
Proposal**

Merchant forwards
STS's transaction
proposal to consumer

**Transaction
Proposal**

Client verifies the STS
Transaction proposal

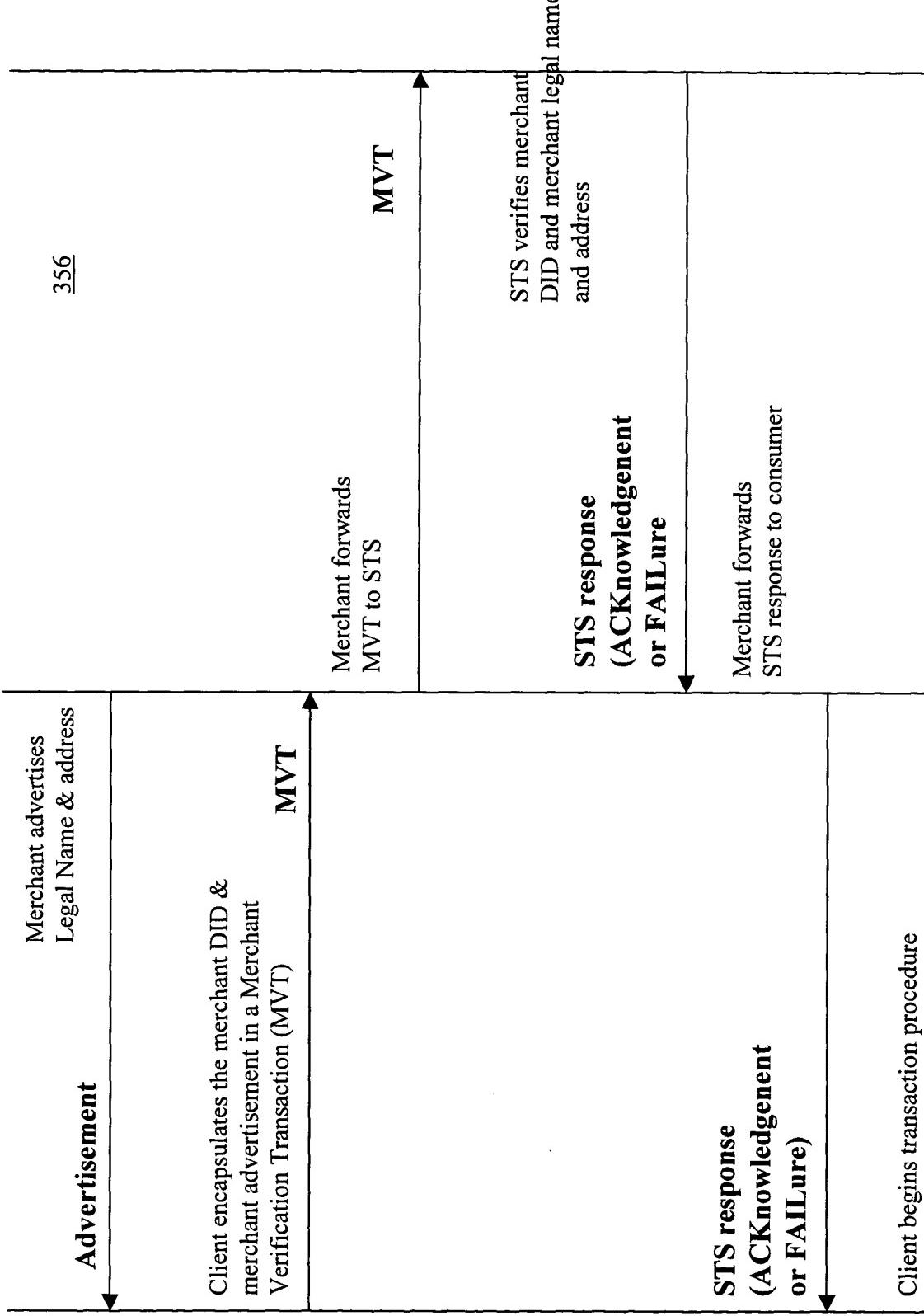
Purchase Order Acquisition – Purchase Order Request from STS

Figure 12

Consumer 102

Merchant 104

STS 106



Merchant Verification

Figure 13

Consumer 102

Merchant 104

STS 106

358

Consumer generates its
transaction view

REQuest_C

REQuest (preAUTHorization)

Merchant generates its transaction
view REQuest_M & forwards
its and consumer's
transaction view to STS REQuest_C + REQuest_M

STS verifies merchant
and consumer and decides
on authorizing transaction

STS response
(ACKnowledgement
or FAILure)

Merchant keeps its response
from STS and forwards STS'
response to the consumer
STS response to the consumer

STS response
(ACKnowledgement
or FAILure)

Client verifies the STS response

Figure 14

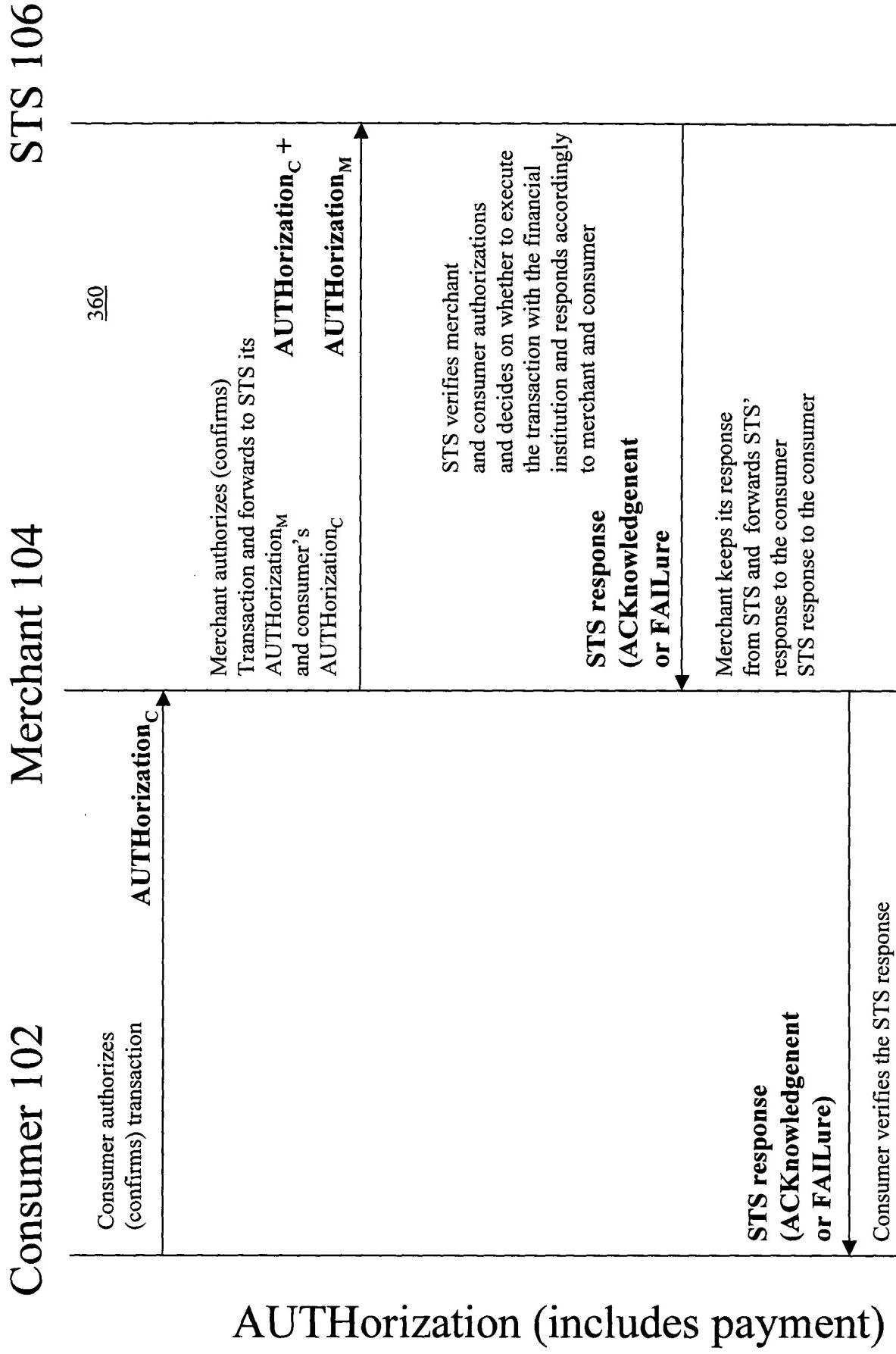
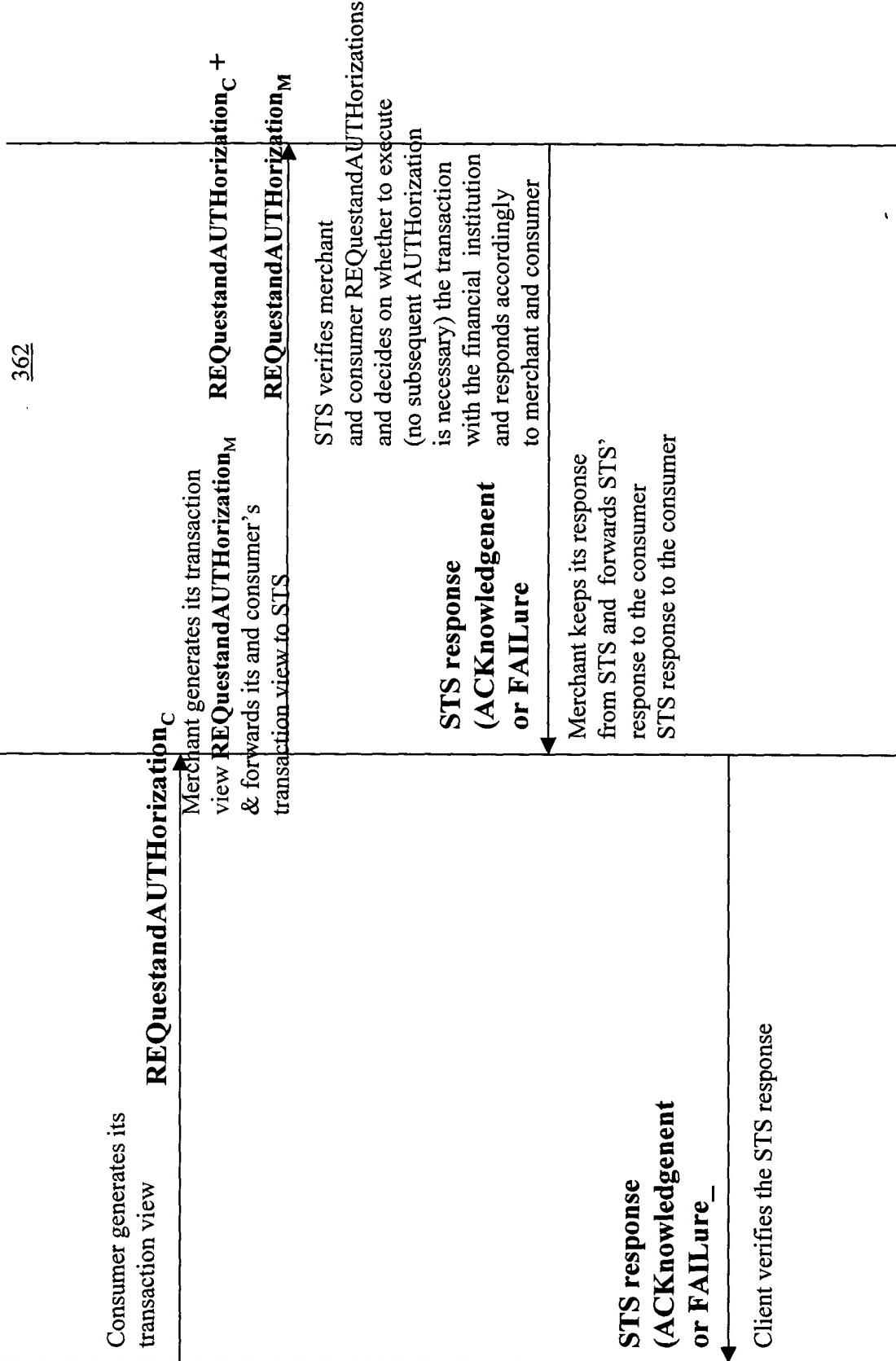


Figure 15

Consumer 102

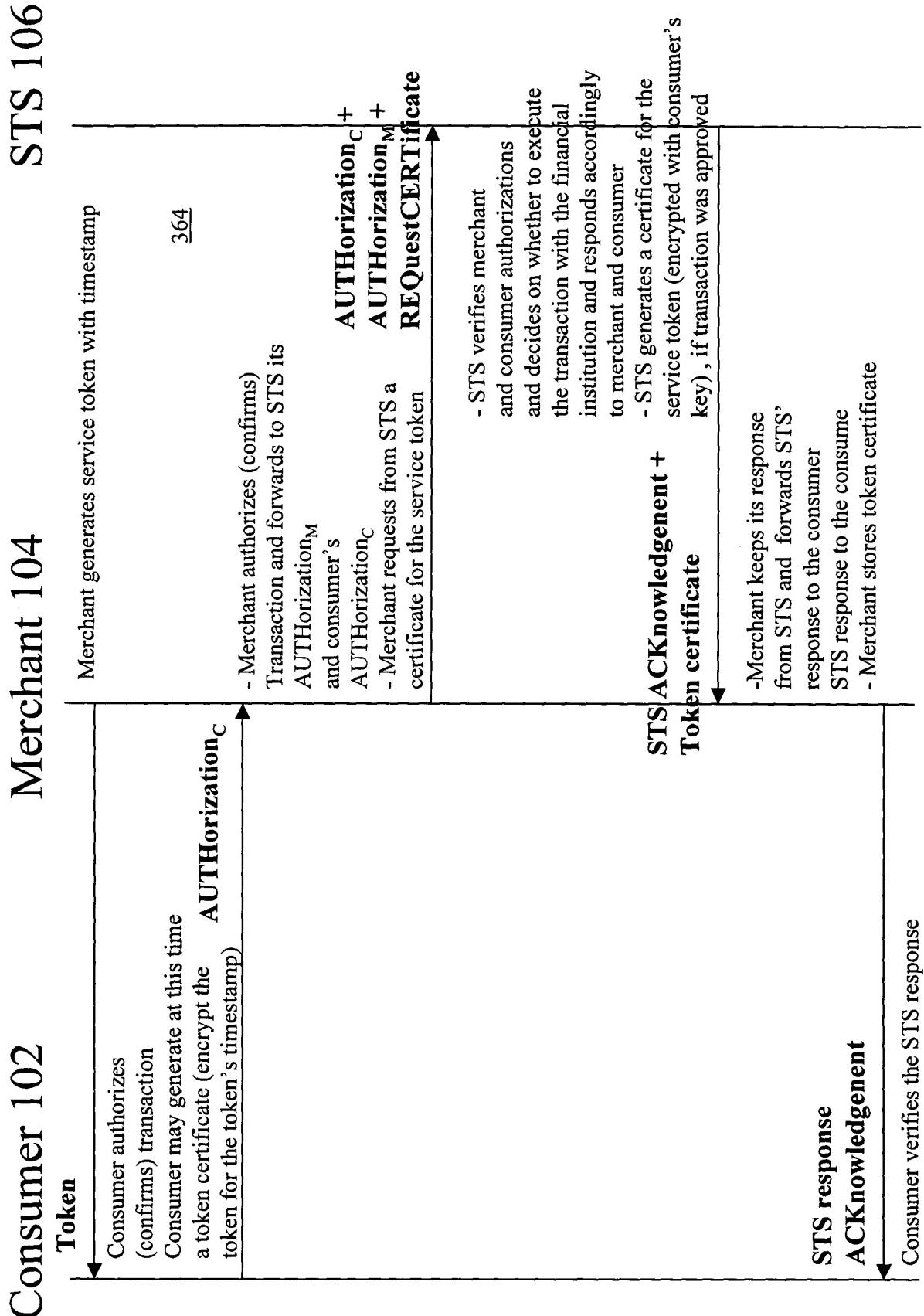
Merchant 104

STS 106



Single step
REQuest and AUTHorization (includes payment)

Figure 16



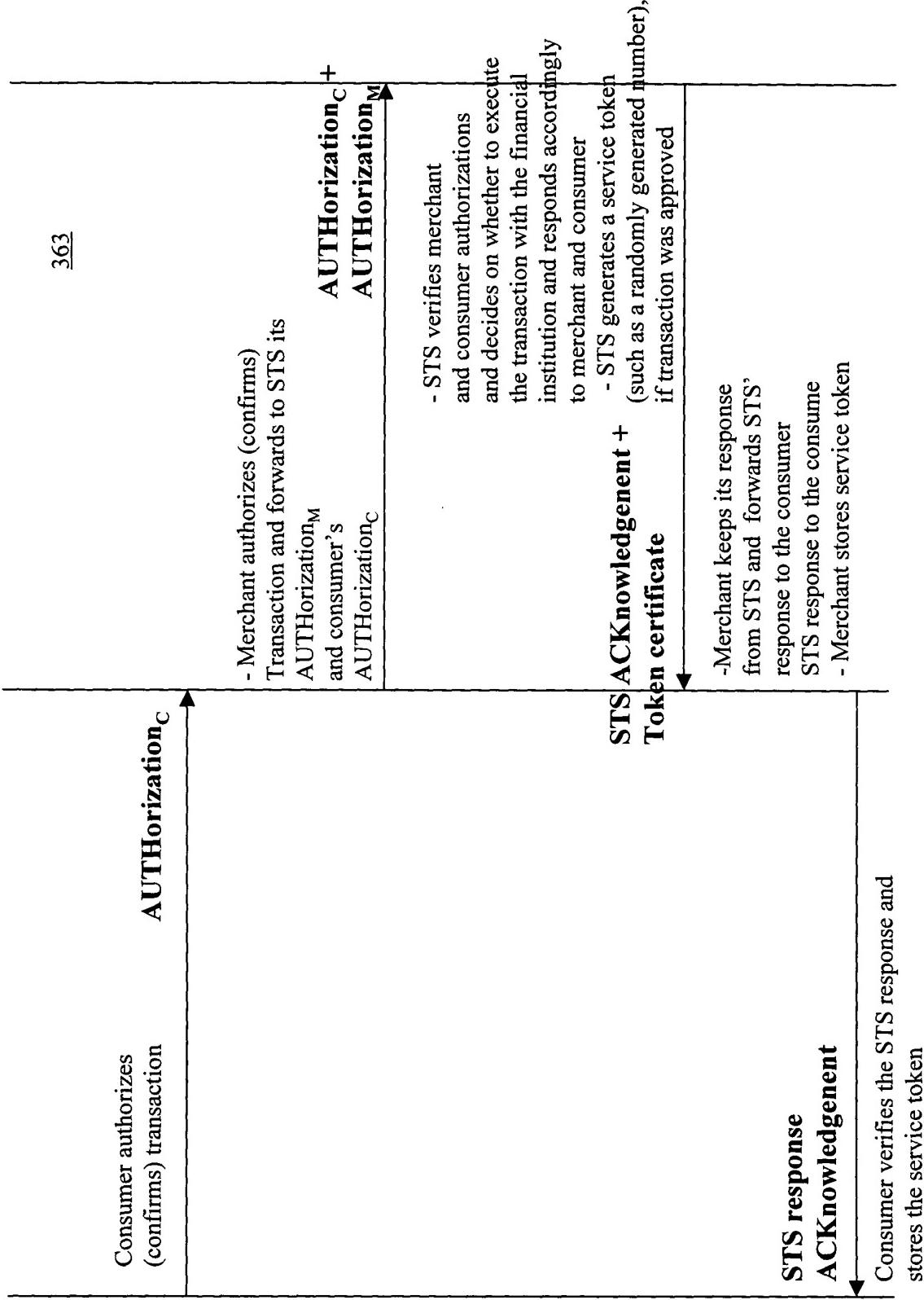
Token Creation and AUTHorization

Figure 17

Consumer 102

Merchant 104

STS 106



Token Creation and AUTHorization

Figure 18

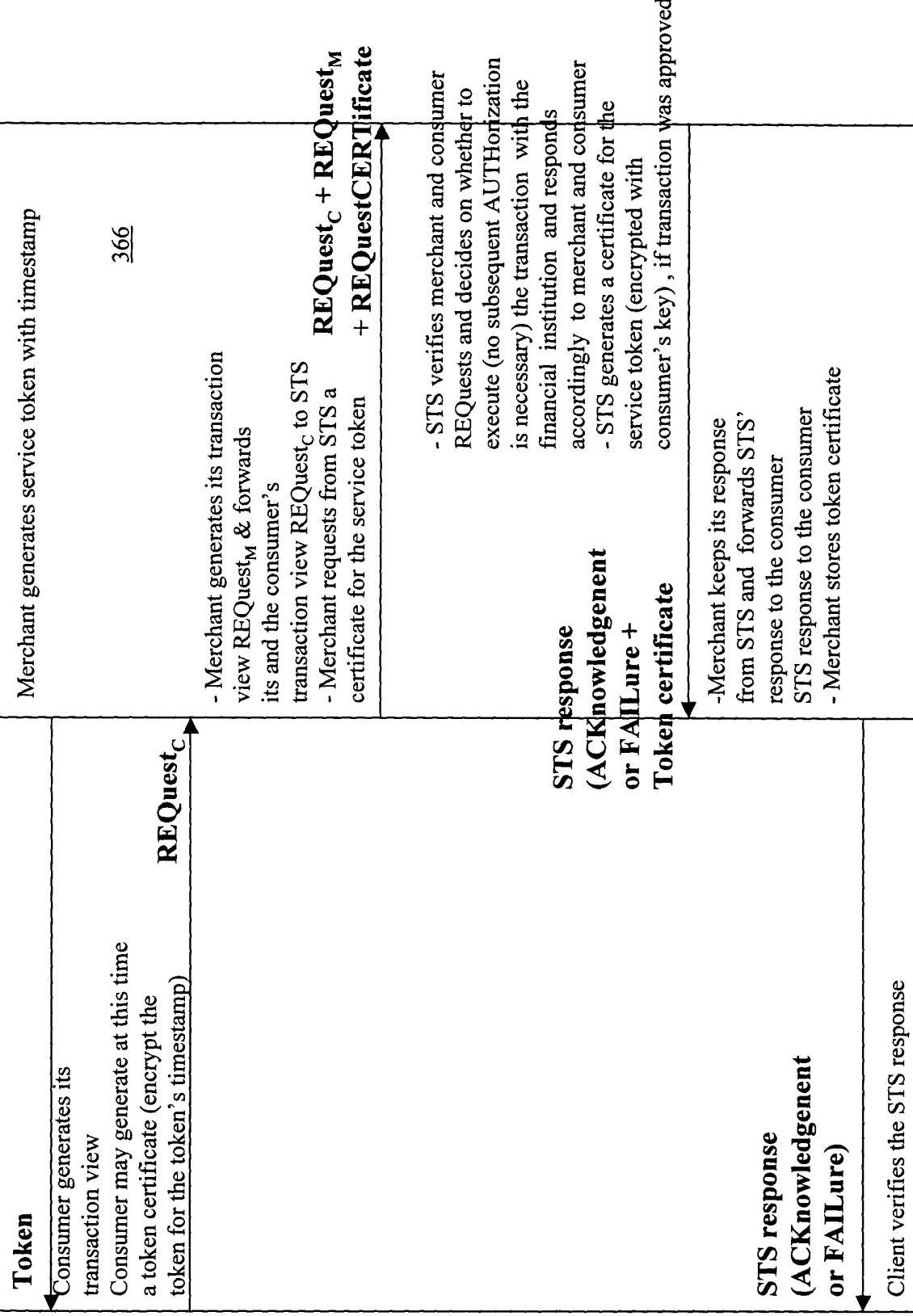


Figure 19

Consumer 102

Merchant 104

STS 106



Single step REQuest, AUTHorization and Token Creation

Figure 20

Consumer 102

Merchant 104

STS 106

Single step REQuest, AUTHorization and Token Creation

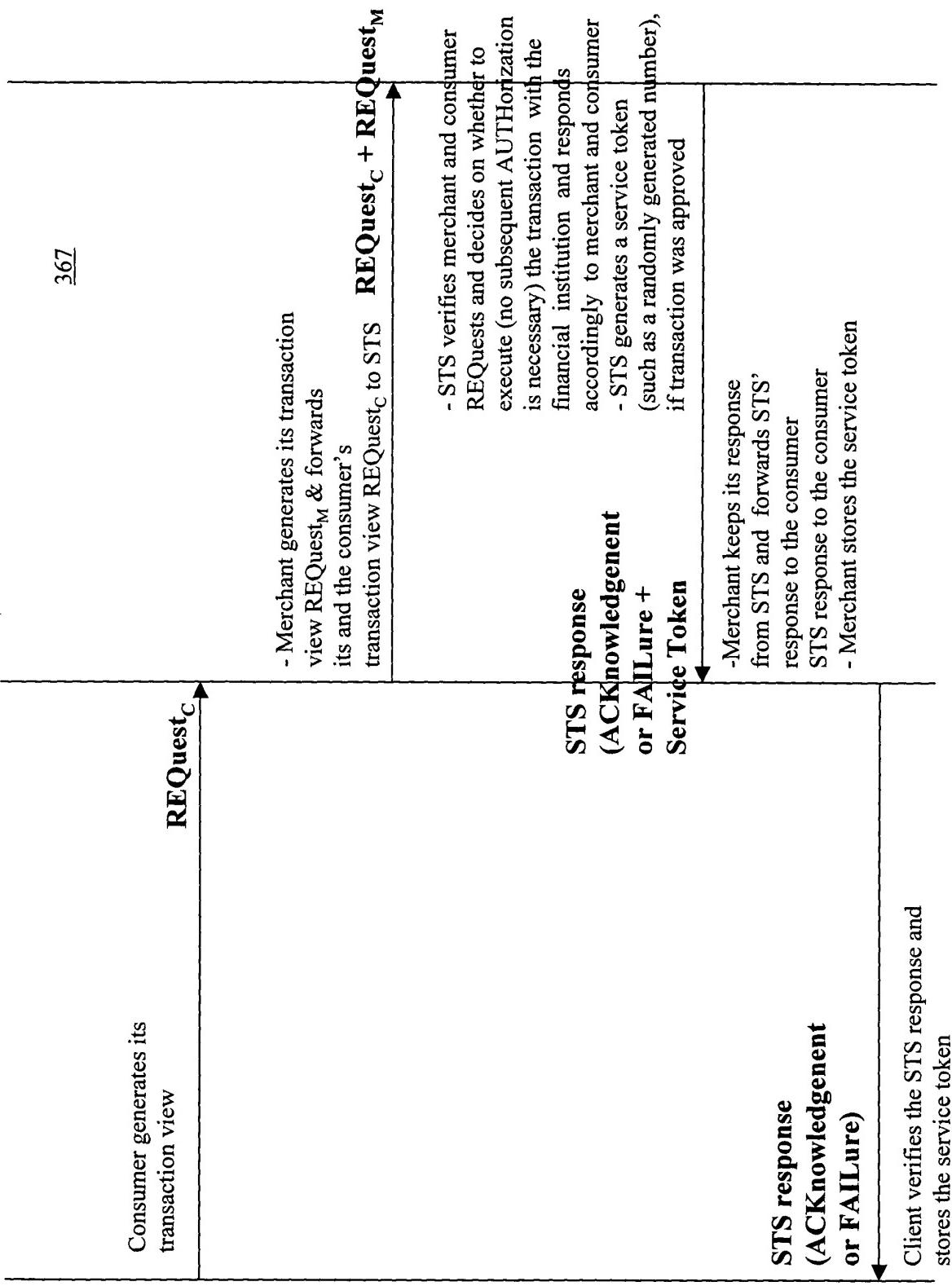
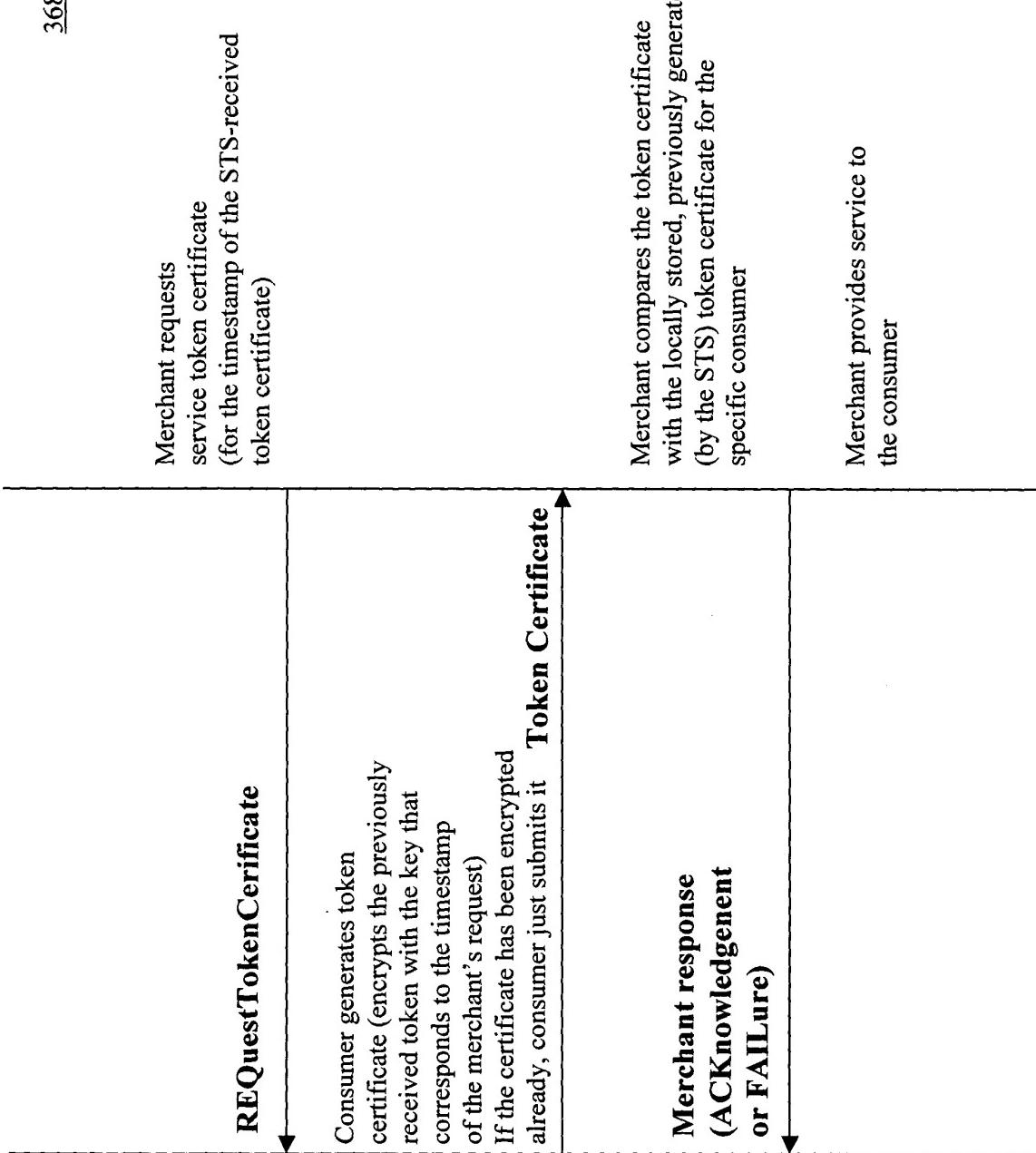


Figure 21

Consumer 102 Merchant 104 STS 106

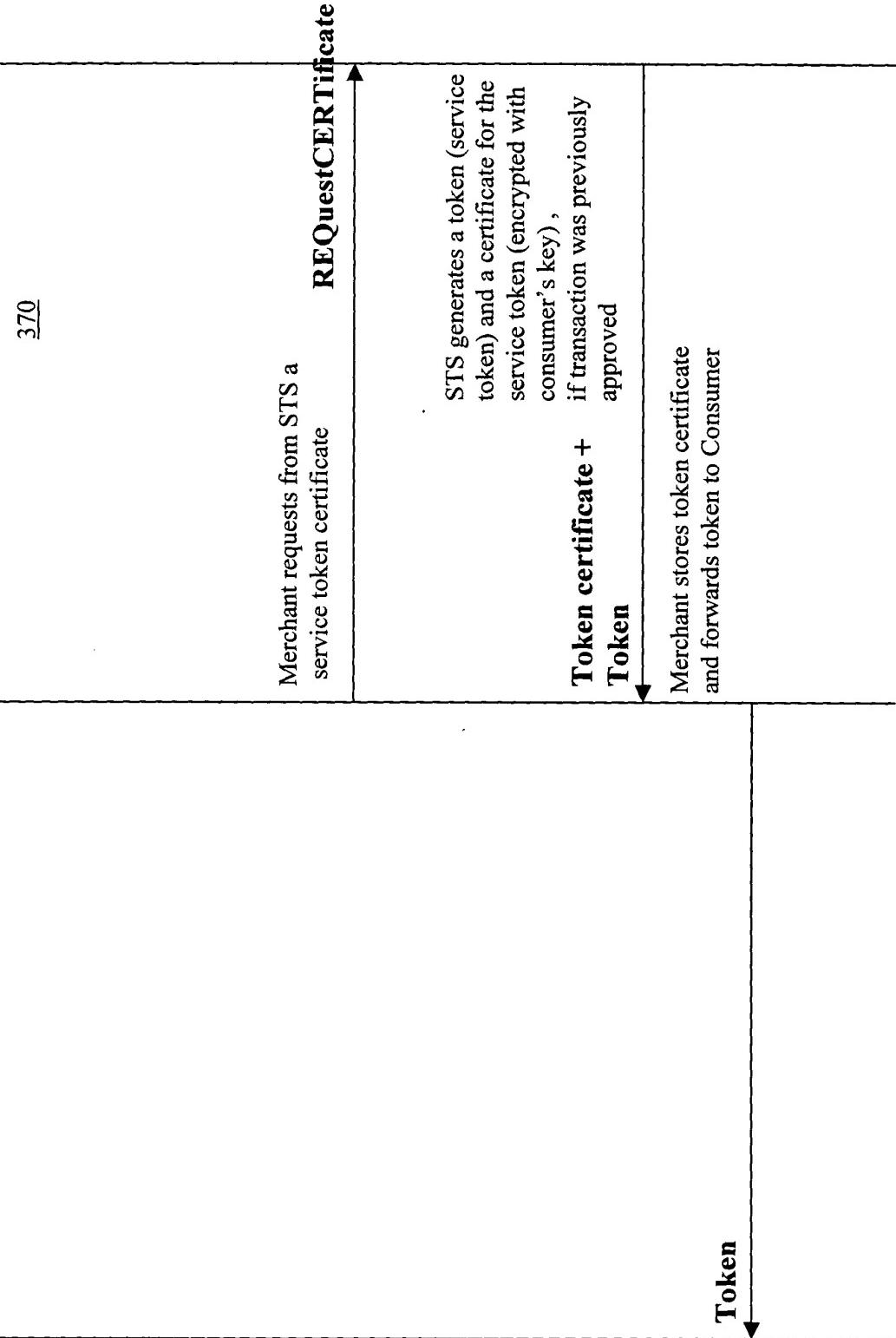
368



Service Token Verification and Consumption

Figure 22

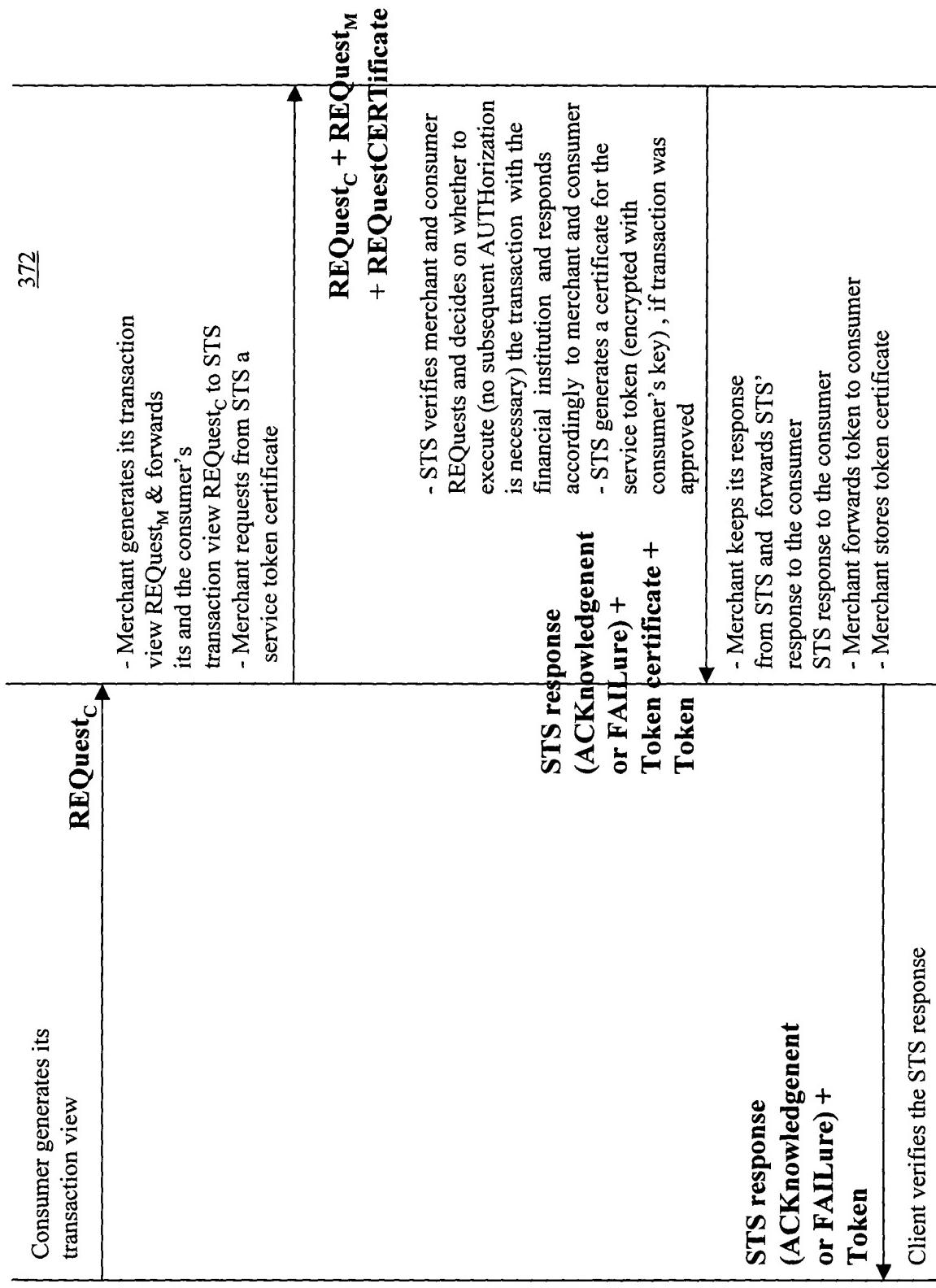
Consumer 102 Merchant 104 STS 106



Token Creation

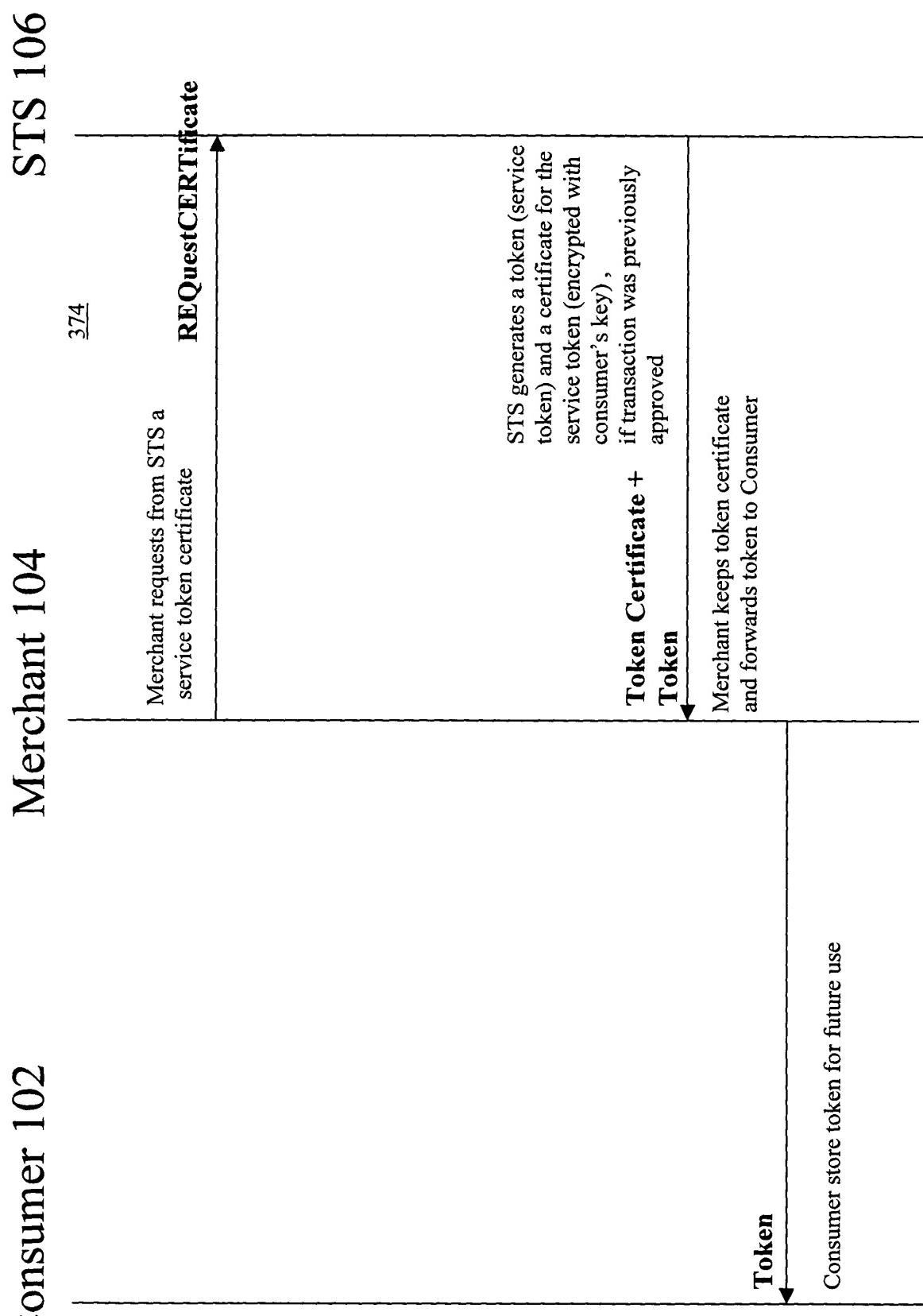
Figure 23

Consumer 102 Merchant 104 STS 106



Single step REQuest, AUTHorization and Token Creation
(for token certificate verification by STS)

Figure 24



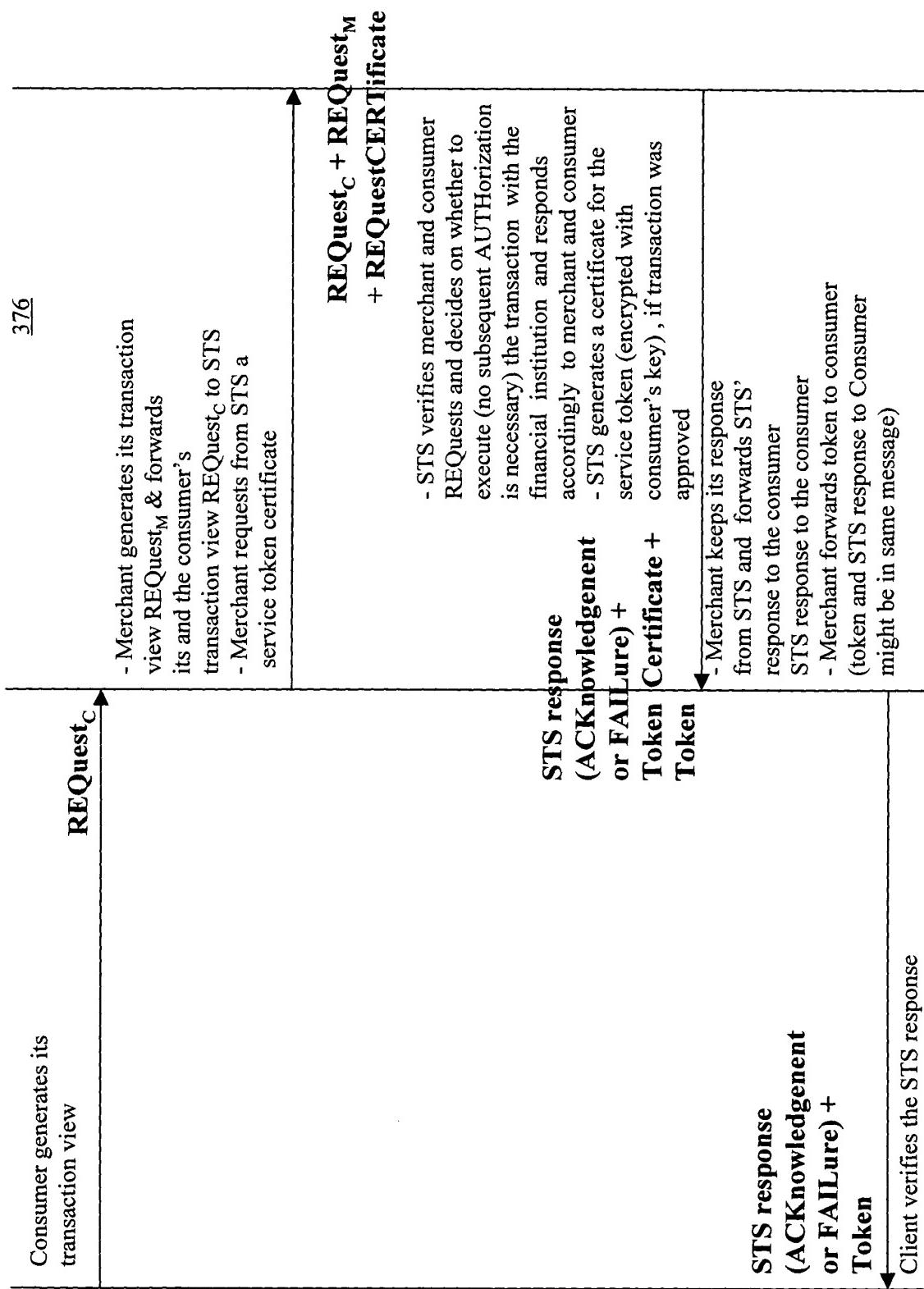
Token Creation
(for token certificate verification by STS)

Figure 25

Consumer 102

Merchant 104

STS 106



Single step REQuest, AUTHorization and Token Creation
(for token certificate verification by STS)

Figure 26

376

STS 106

Merchant 104

Consumer 102

Service Token Consumption (Verification by STS)

378

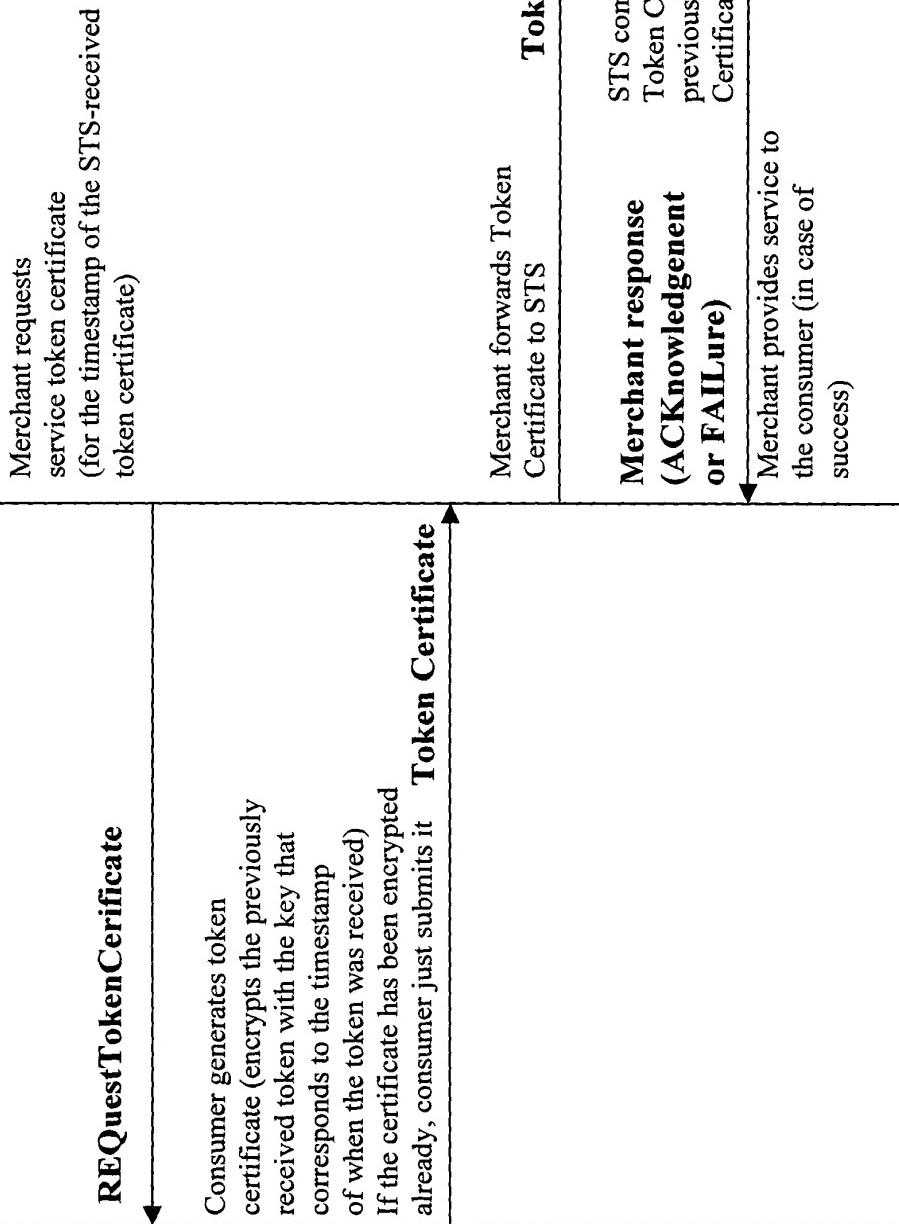


Figure 27

Consumer 102

Merchant 104

STS 106

379

Consumer submits service token.
Alternatively Consumer might
display service token on his device

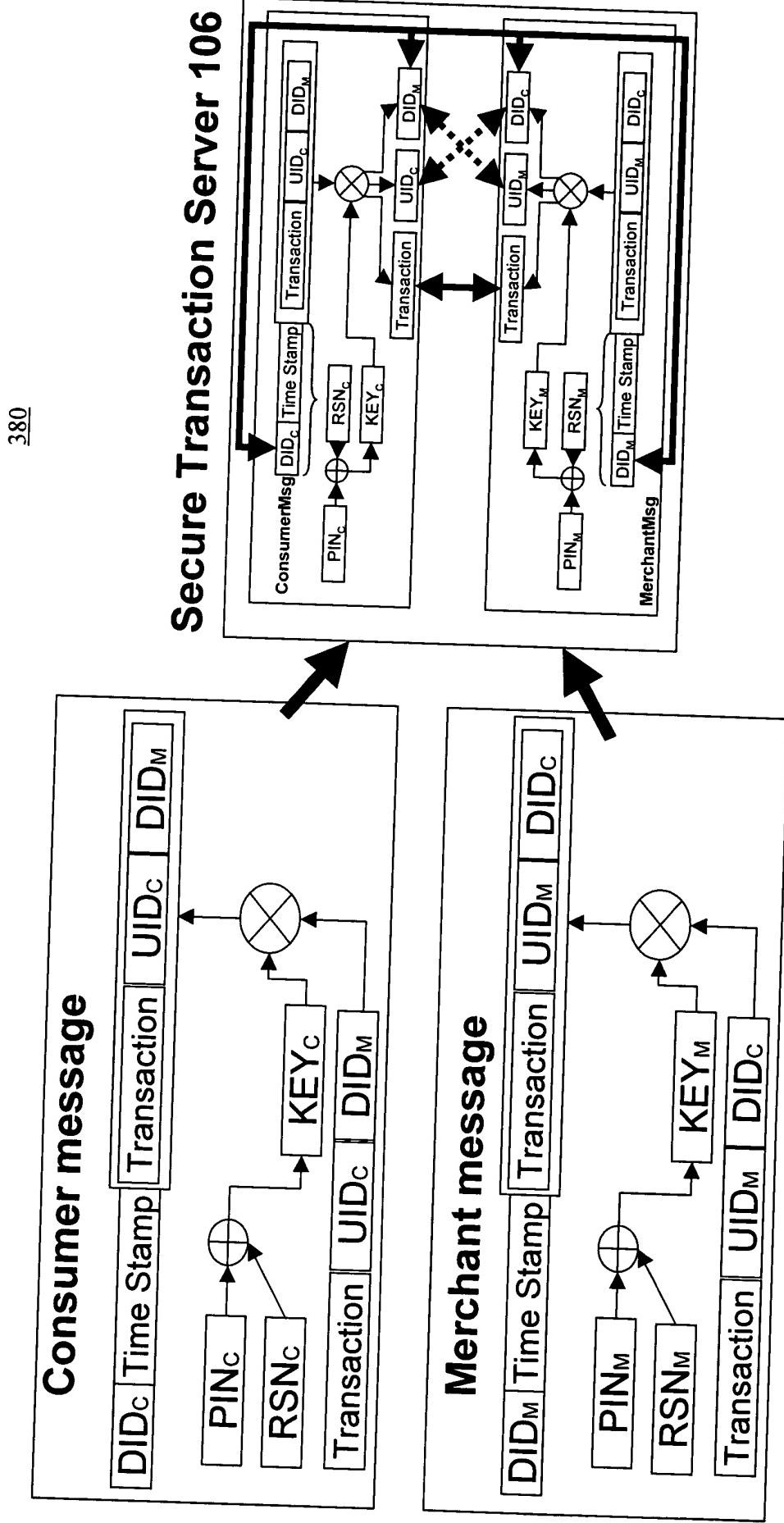
Service Token

Merchant provides service to
the consumer if he already has such
a service token for that consumer
(i.e. consumer previously paid for the service)
Such a token would have been sent to the merchant by
the STS upon the successful execution of a prior
transaction

Service Token Consumption (Verification by Merchant only)

Figure 28

Figure 29



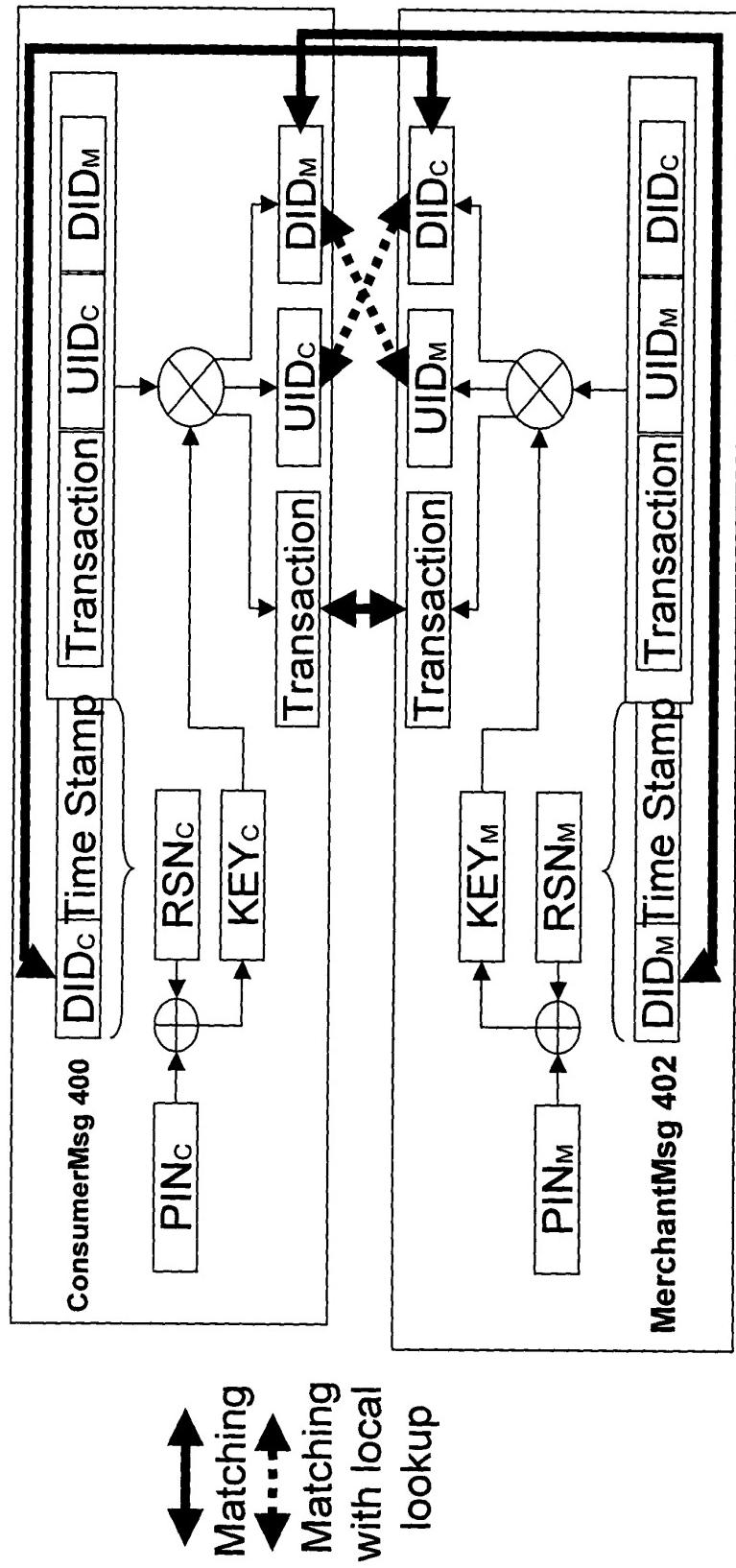


Figure 30

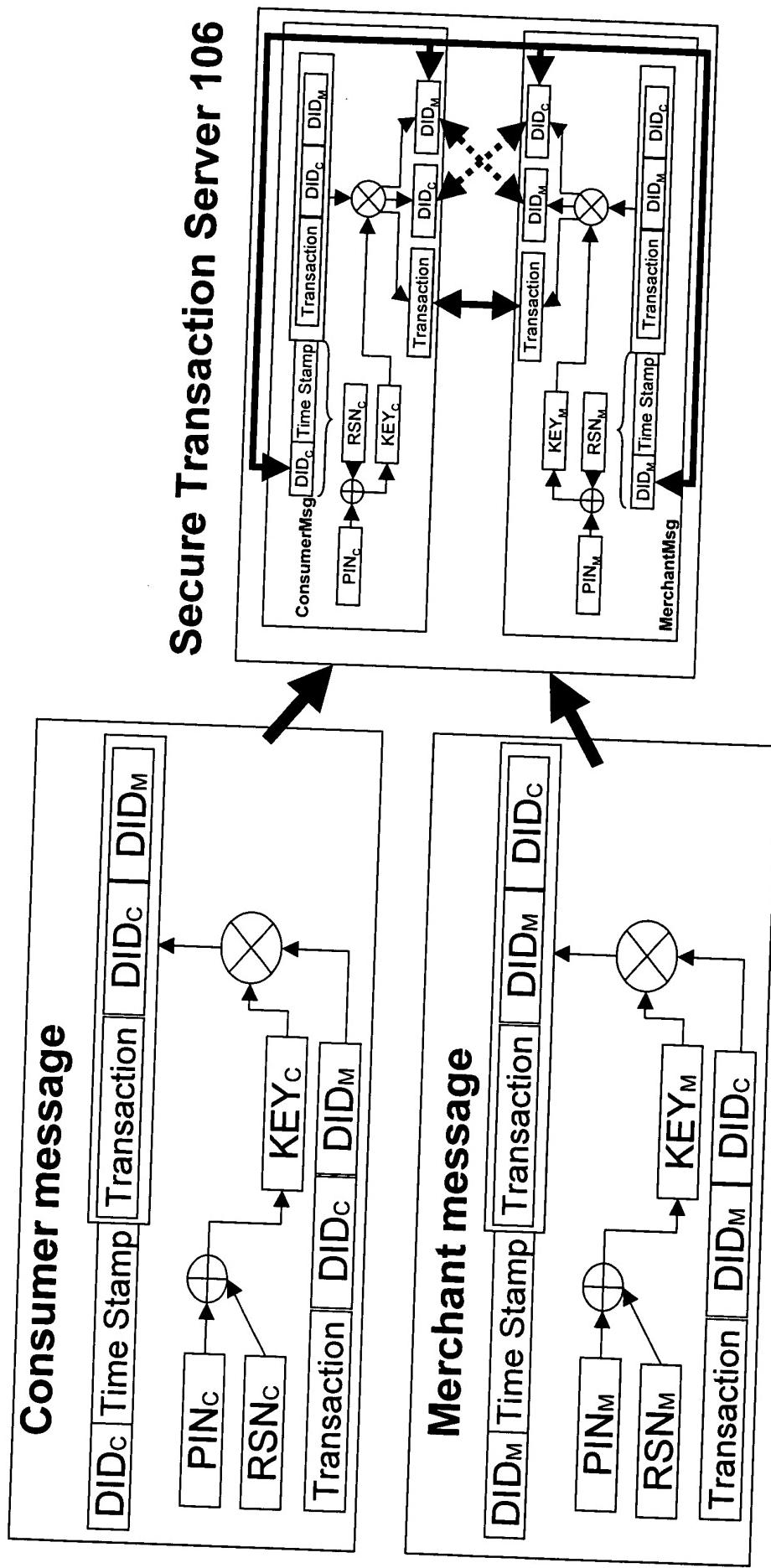


Figure 31

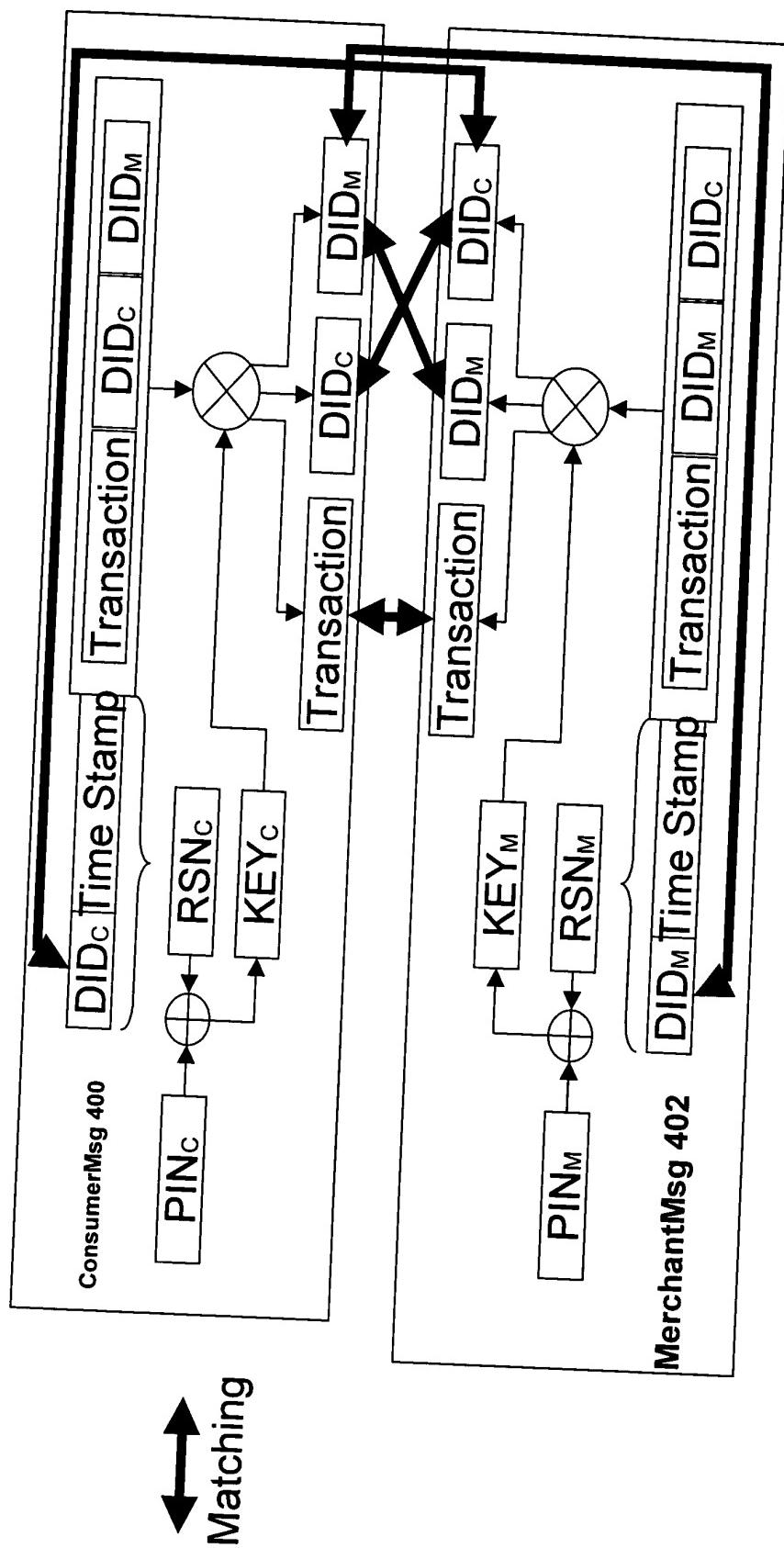
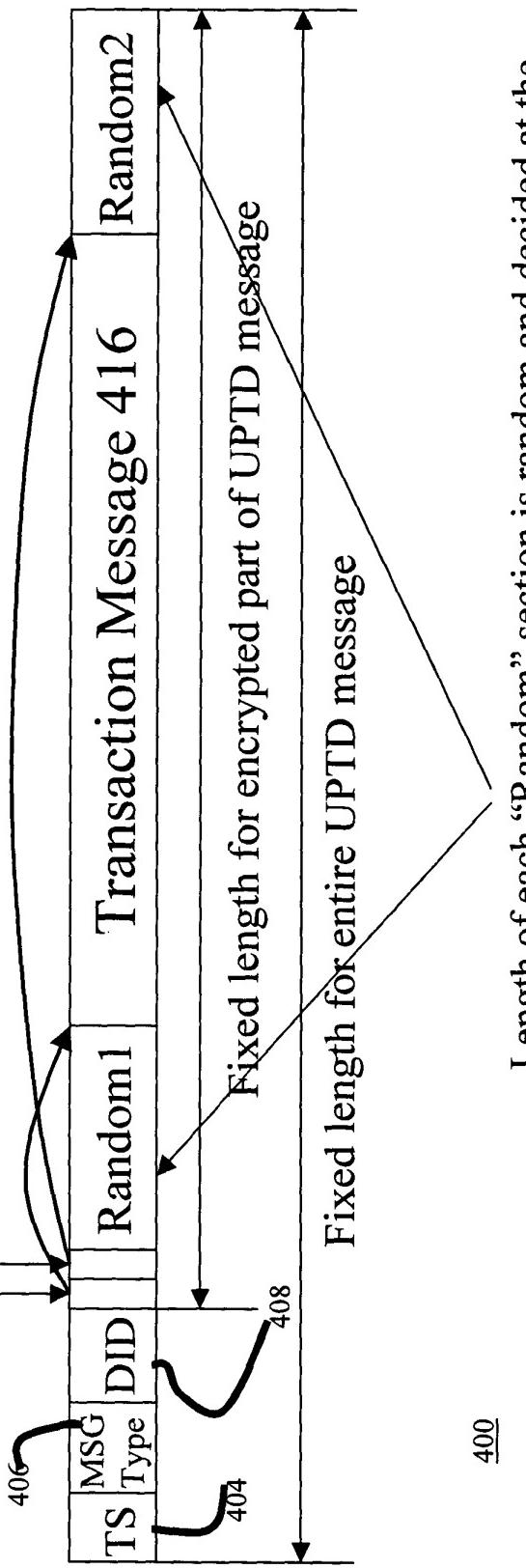


Figure 32

Pointer 412 to end of Transaction Message or Transaction Message Length or Length of Random2

Pointer 410 to beginning of Transaction Message or Length of Random1



Length of each “Random” section is random and decided at the time of message composition.

414: Random 1

418: Random 2

Figure 33

420

A	B	C	D	E	F	G
---	---	---	---	---	---	---

- A: Message type (REQuest or AUTHorization; REQuest in this case)
- B: Success Code for response to this message
- C: Failure Code for response to this message
- D: DID of message sending device
- E: DID of other transacting party's device
- F: Transaction amount or some other agreed transaction description
- G: Friendly name of account to be used to pay D's user, amount E
F is optional and might be specified in AUTHorization message

Figure 34

422

A	B	C	D	E	F
---	---	---	---	---	---

- A: Message type (REQuest or AUTHorization; REQuest in this case)
- B: Success Code for response to this message
- C: Failure Code for response to this message
- D: DID of message sending device
- E: DID of other transacting party's device
- F: Transaction amount or some other agreed transaction description

Figure 35

Figure 36

A	B	C
---	---	---

424

- A: The Success or Failure code indicated by Payer depending on whether the REQuest was successful or not
- B: A randomly generated number to be used to refer to the transaction for the remainder of the change
- C: Payer's account listing

Figure 37

A	B
---	---

426

- A: The Success or Failure code indicated by Payer depending on whether the REQuest was successful or not
- B: A randomly generated number to be used to refer to the transaction for the remainder of the exchange

428

A	B	C	D	E
---	---	---	---	---

- A: Message type (REQuest or AUTHorization; AUTHorization in this case)
- B: Success Code for response to this message
- C: Failure Code for response to this message
- D: A reference to the transaction been authorized; a previously STS-generated reference is used
- E: Optional to reference payer's account if not previously specified

Figure 38

A	B	C	D	E
---	---	---	---	---

- A: Message type (REQuest or AUTHorization; AUTHorization in this case)
- B: Success Code for response to this message
- C: Failure Code for response to this message
- D: A reference to the transaction been authorized; a previously STS-generated reference is used
- E: Optional to reference payee's account if not previously specified

Figure 39

Figure 40

A	B
---	---

432

- A: The Success or Failure code indicated by Payer depending on whether the Authorization was successful or not
- B: An optional additional description, for example a service token value (receipt)

Figure 41

- A: The Success or Failure code indicated by Payee depending on whether the Authorization was successful or not
- B: An optional additional description, for example a service token value (receipt)

A	B
---	---

434

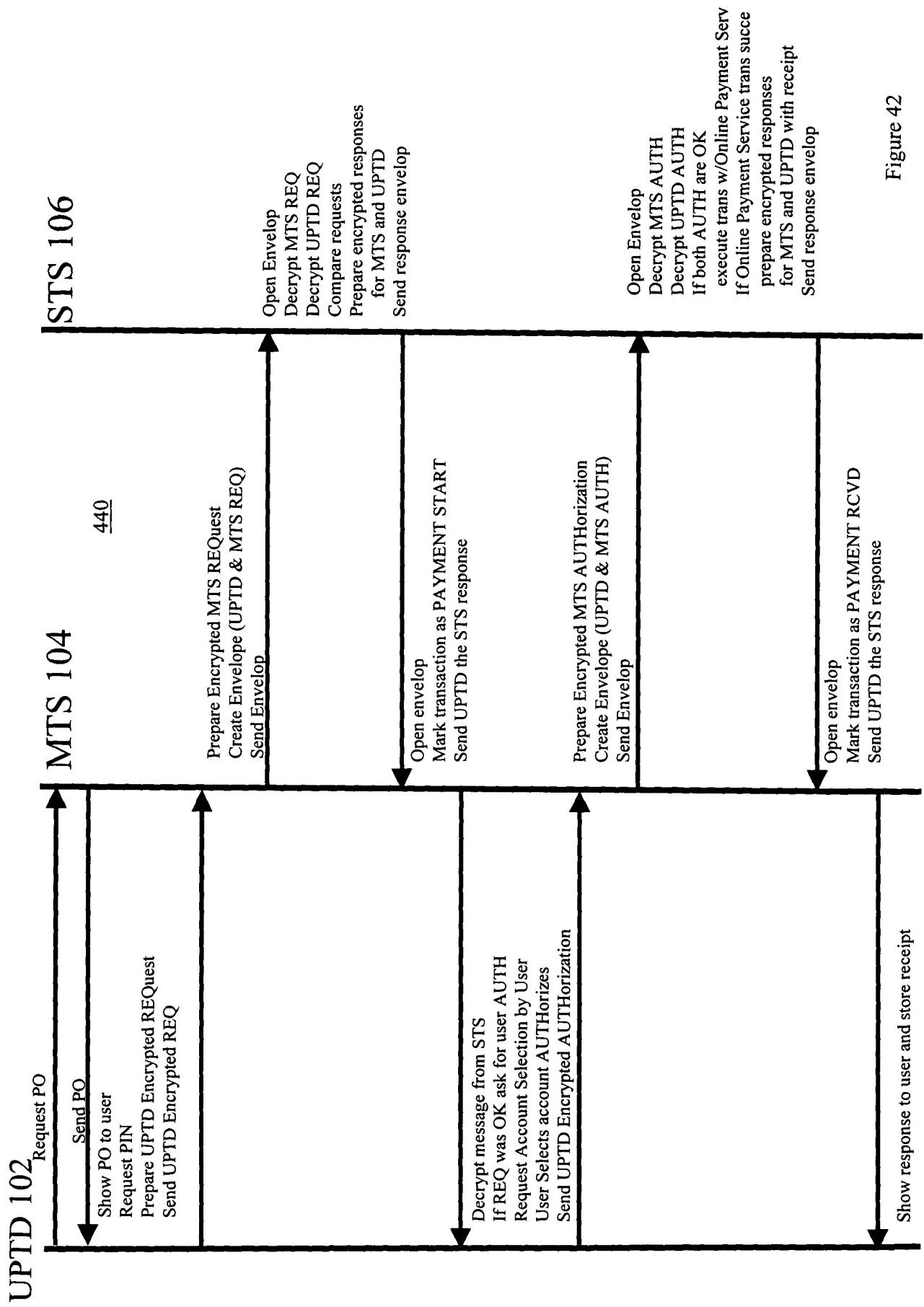


Figure 42

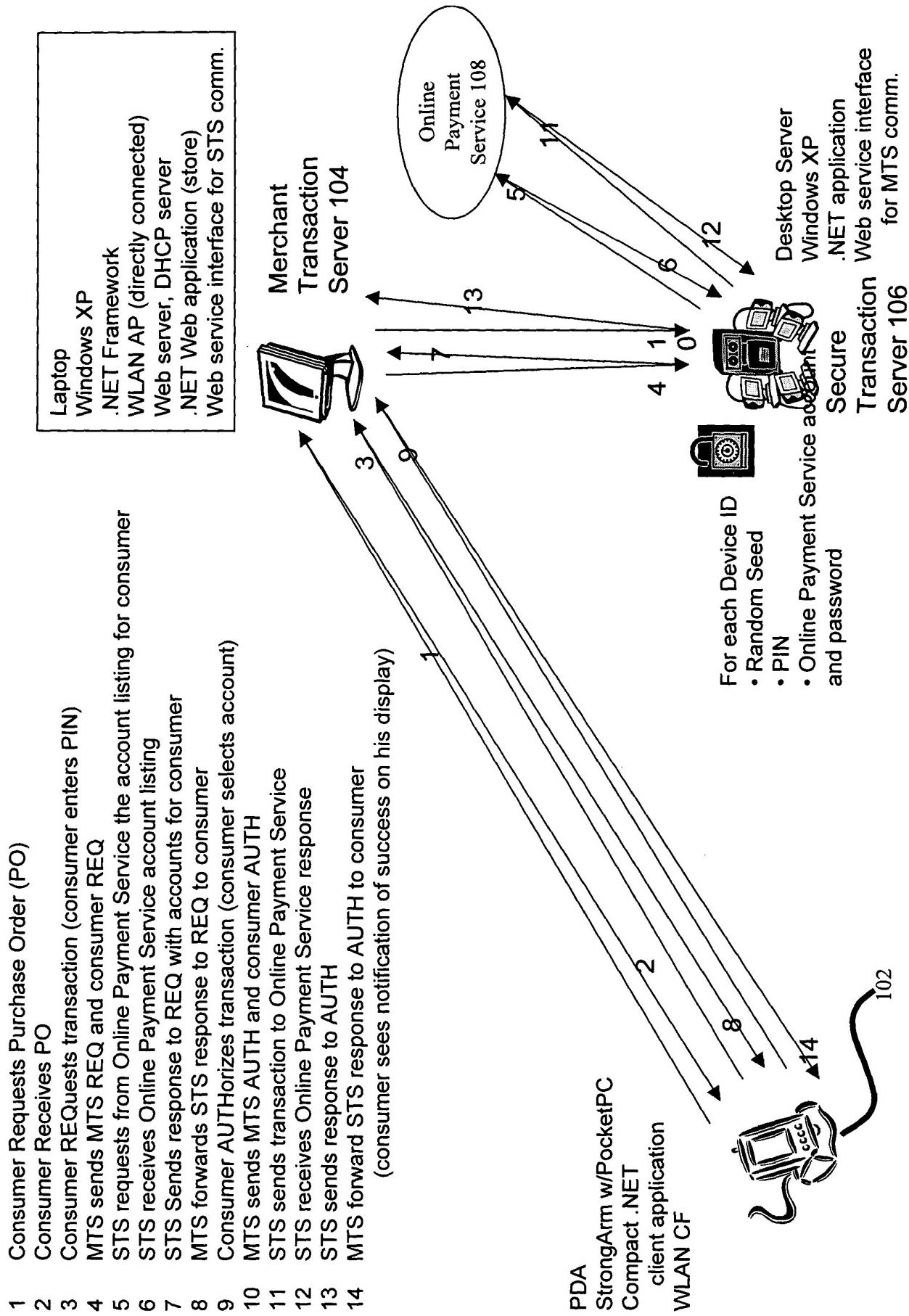


Figure 43

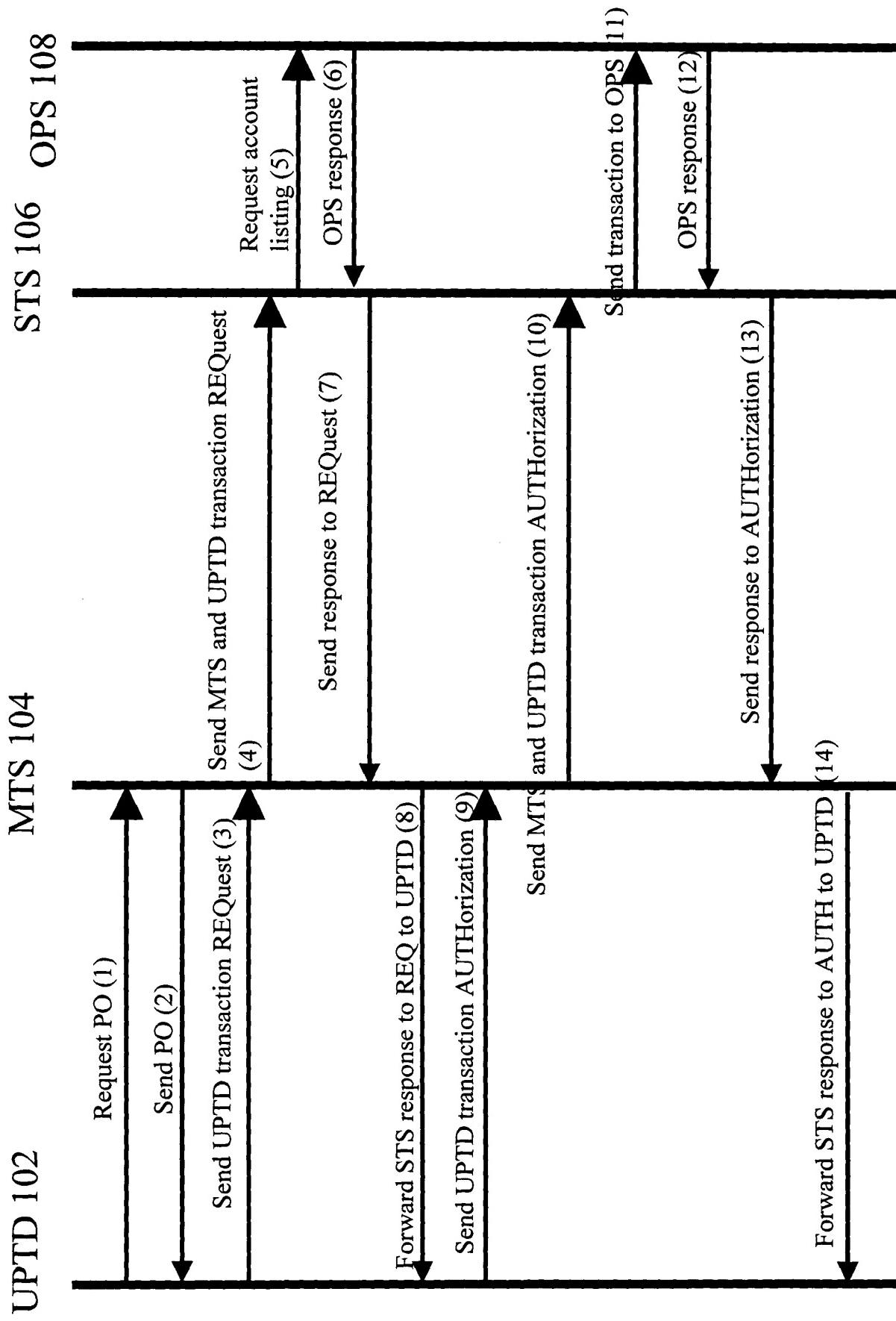


Figure 44

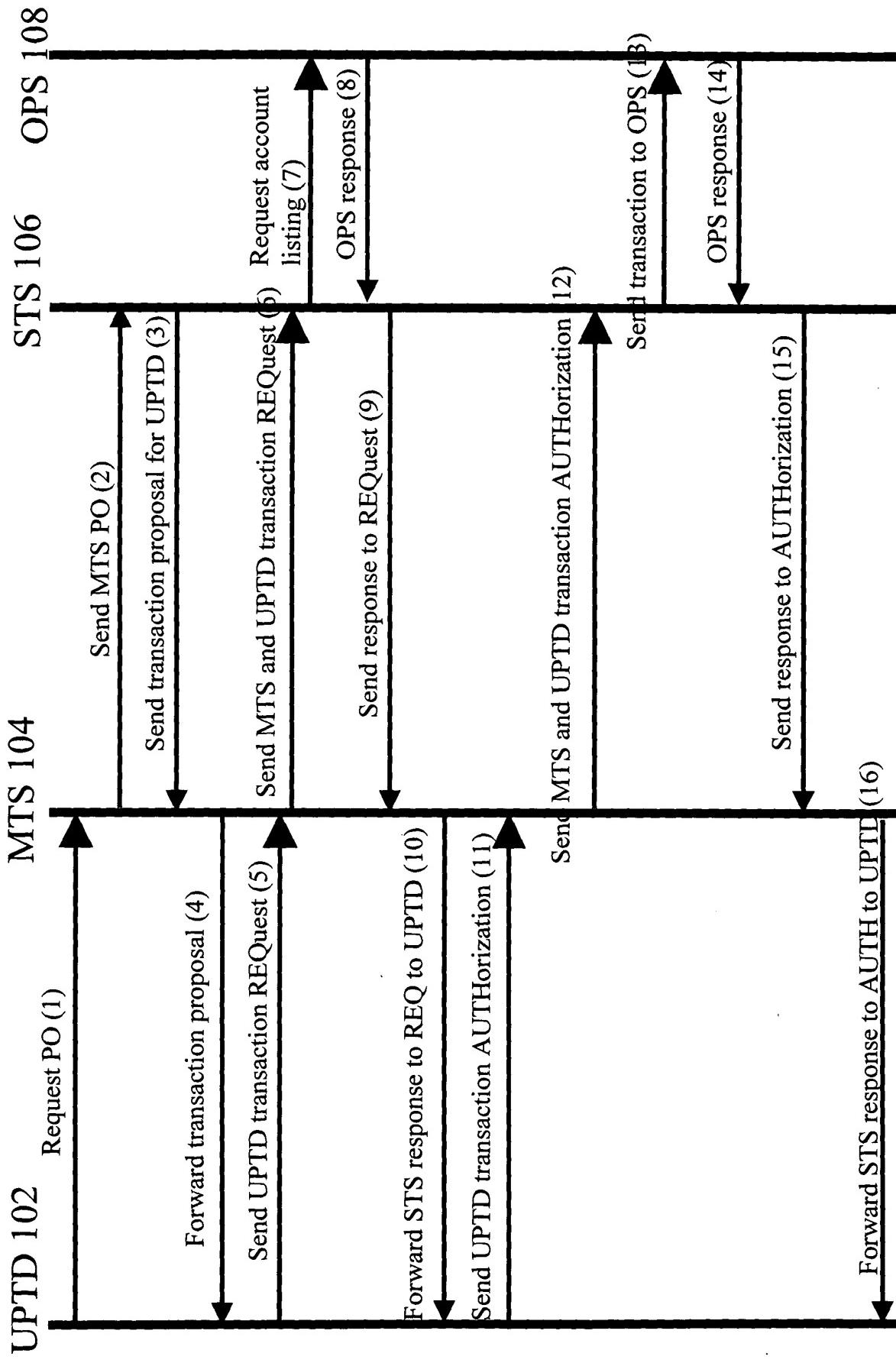


Figure 45

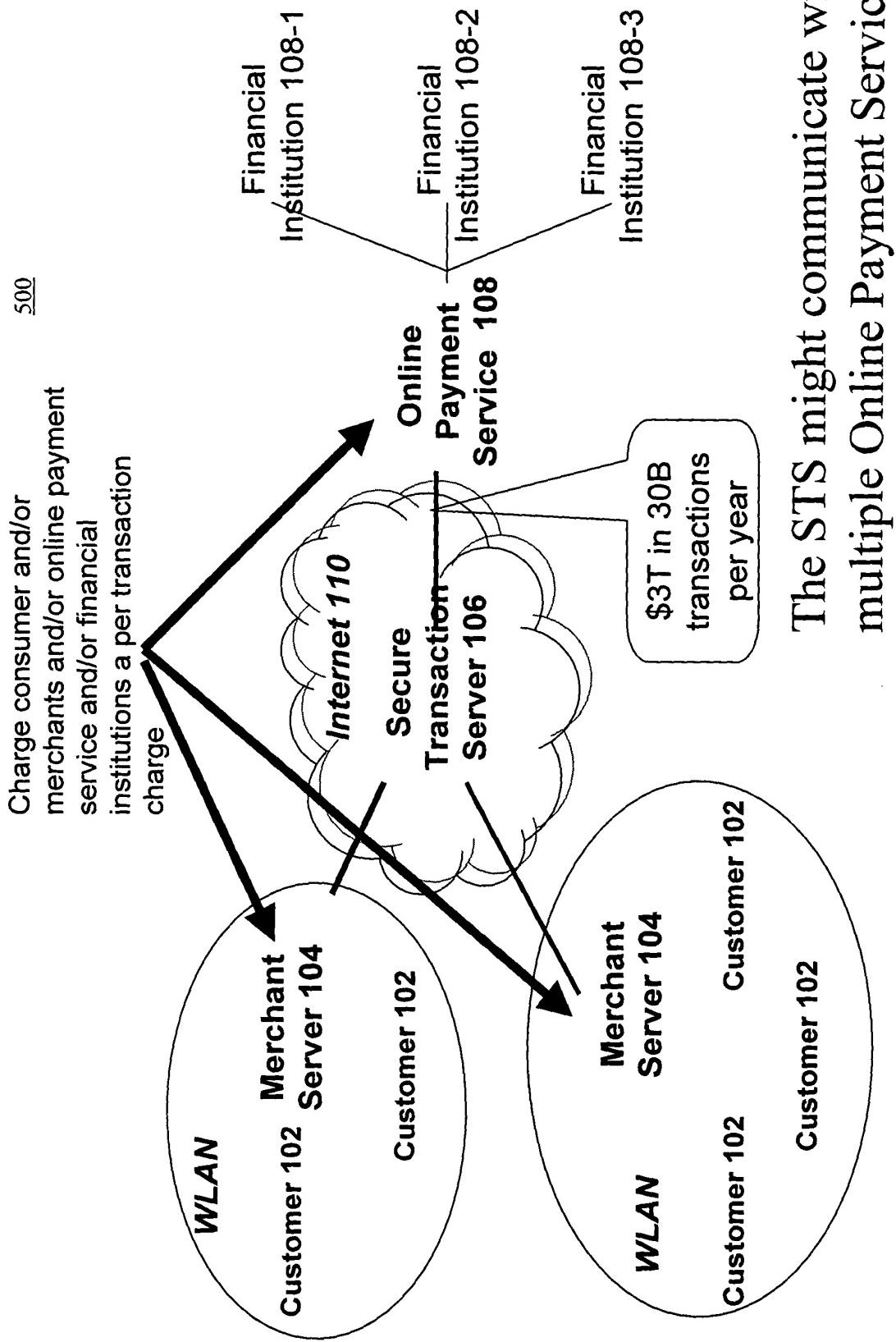


Figure 46

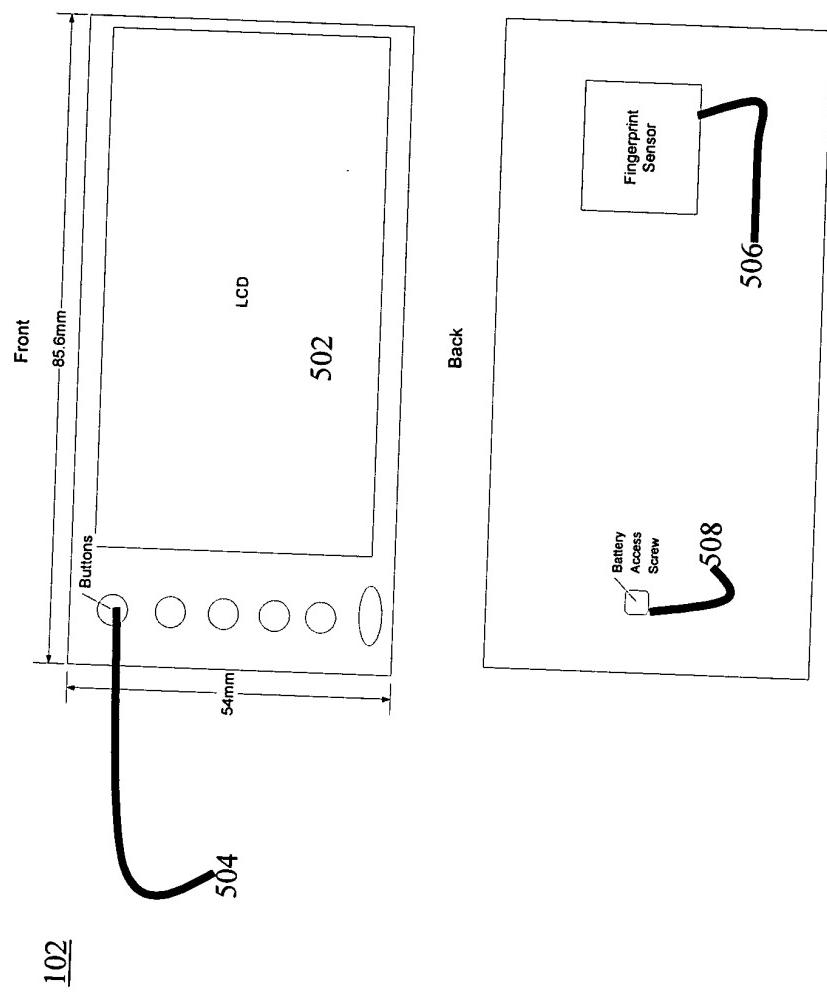


Figure 47

Figure 48

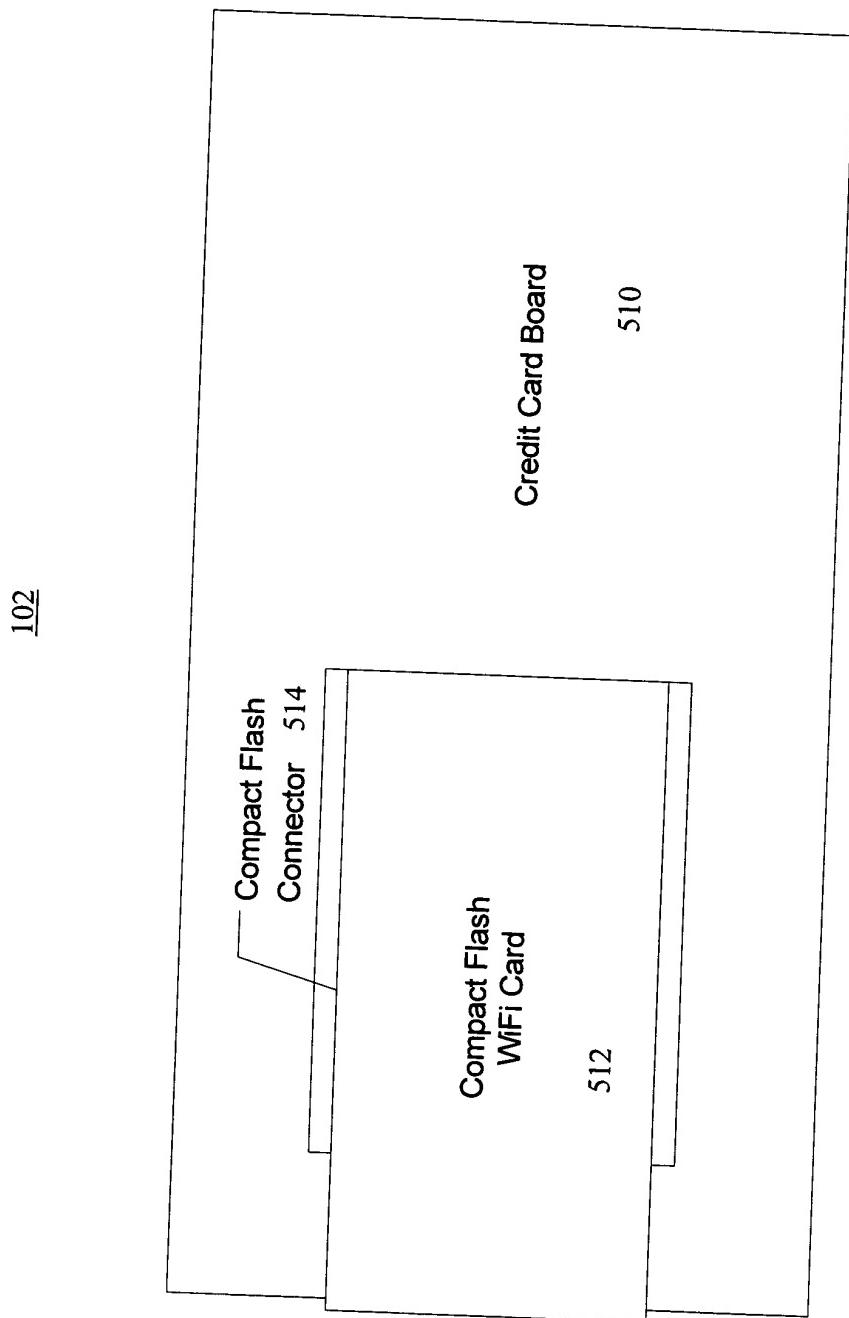
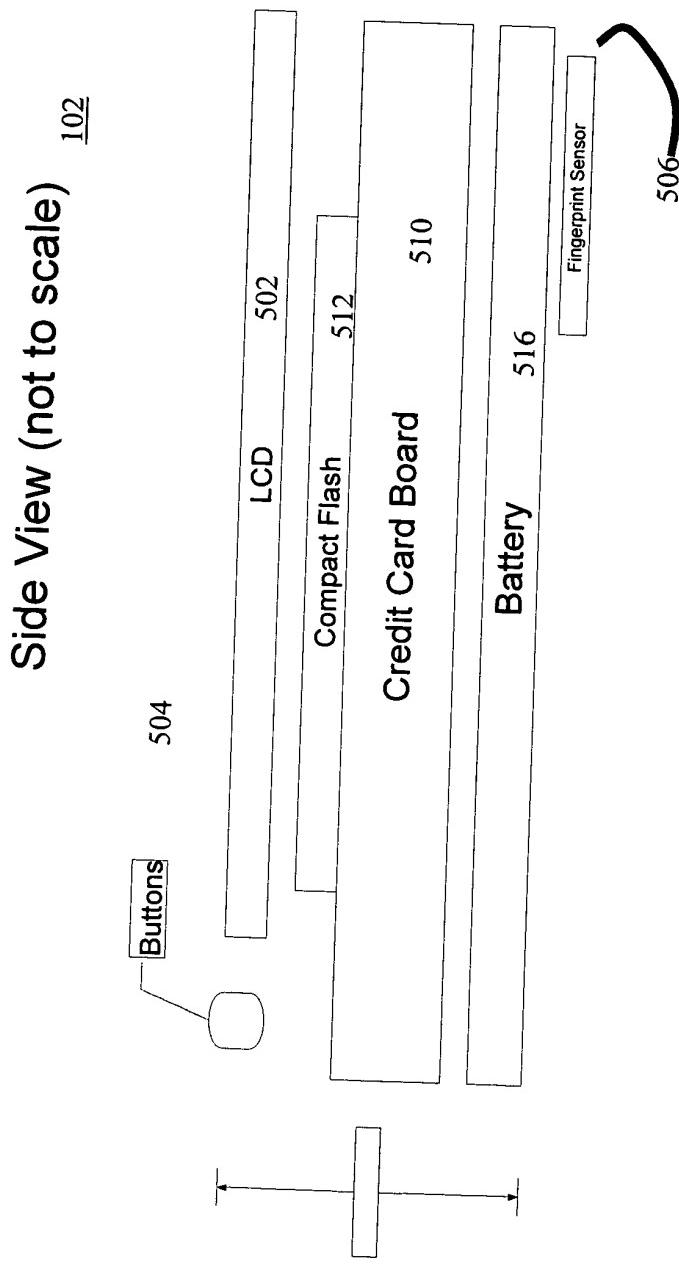


Figure 49



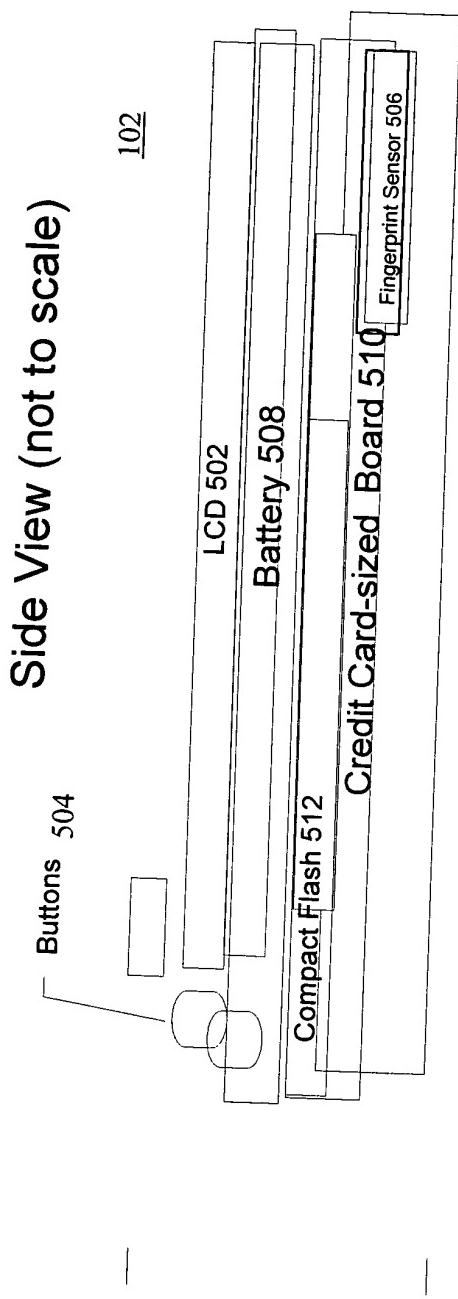


Figure 50

Pre-purchasing phase, example 600

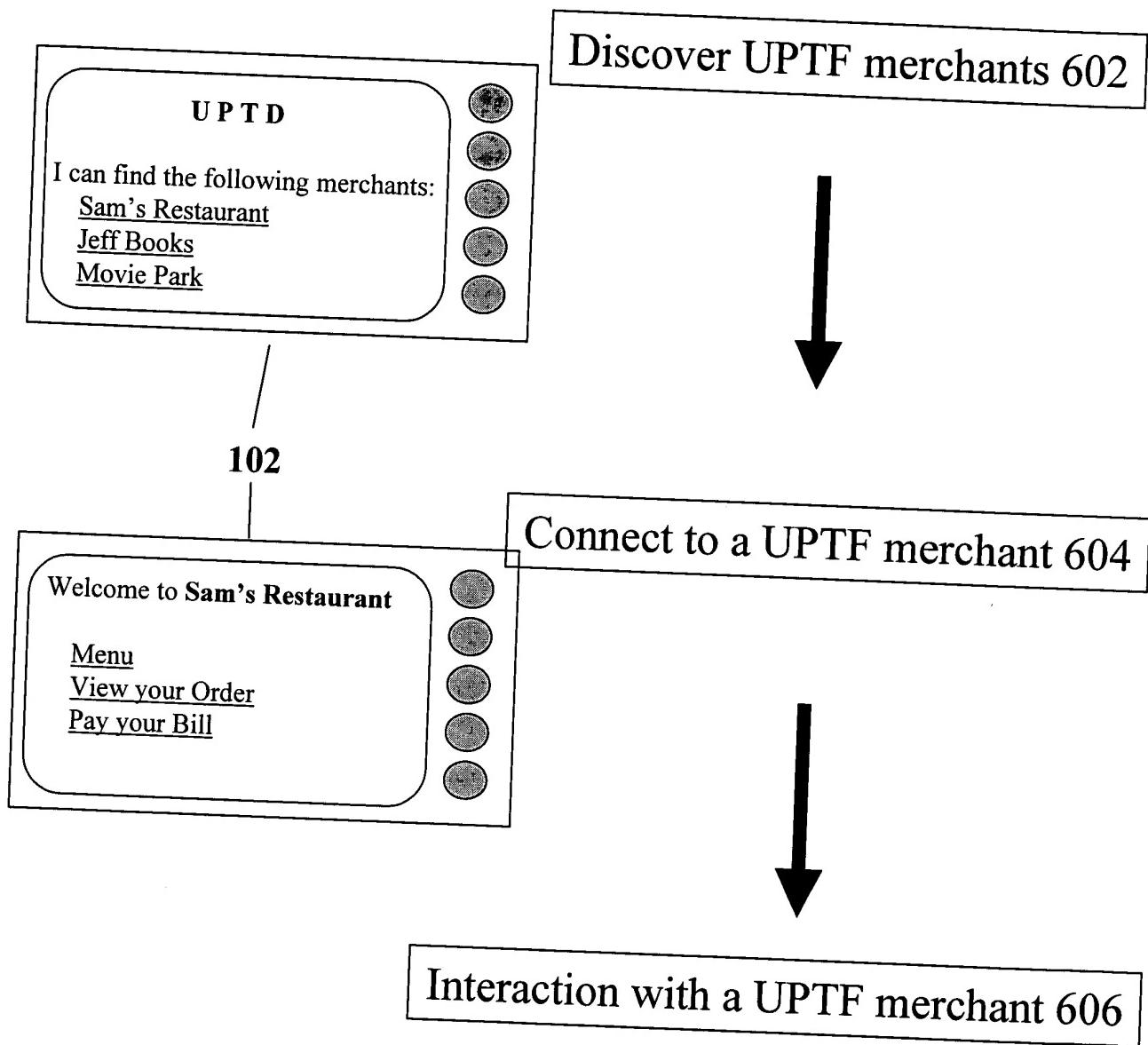


Figure 51

Physical Goods Purchase I, example 610

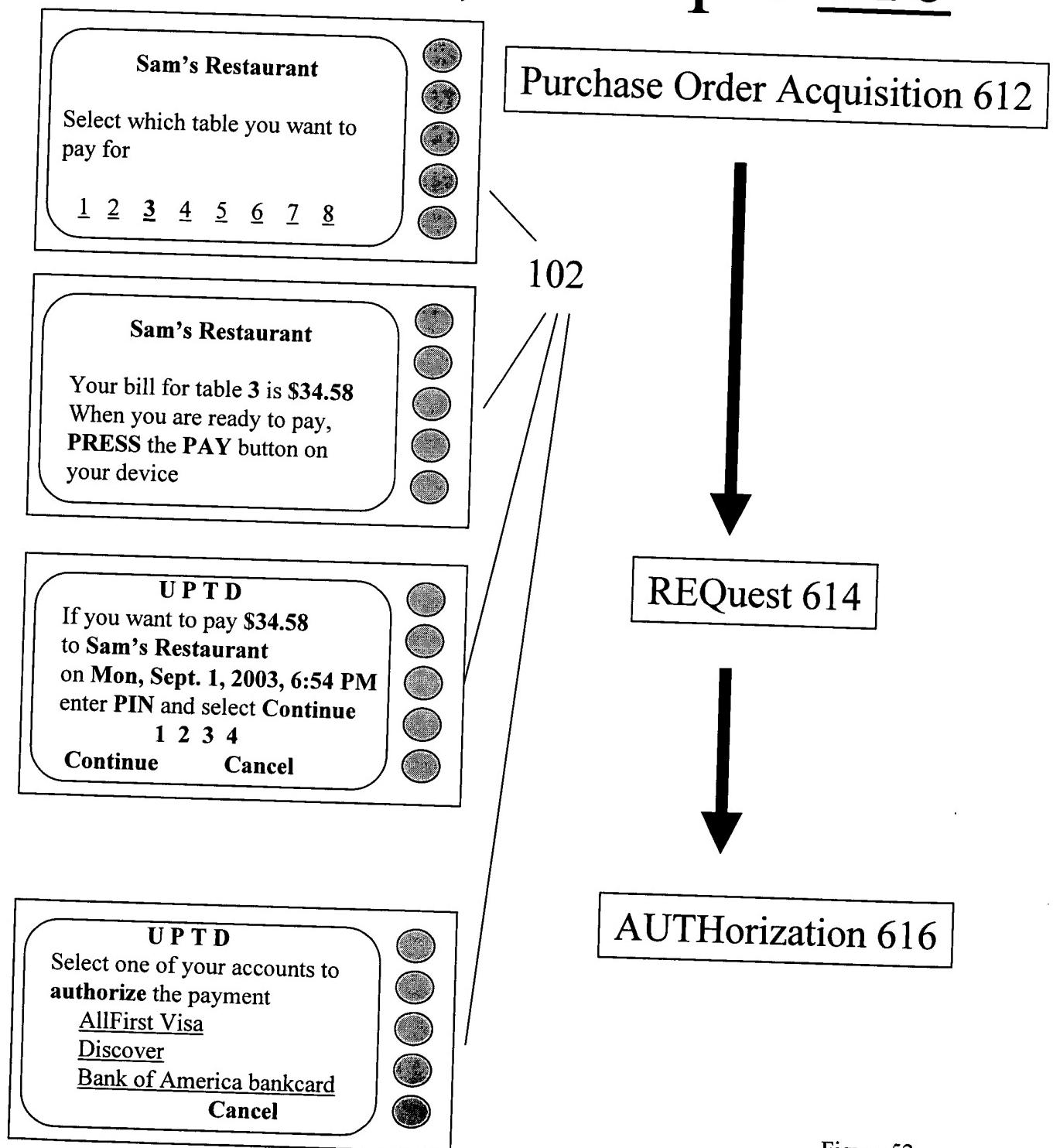


Figure 52

Physical Goods Purchase I, example, variation 620

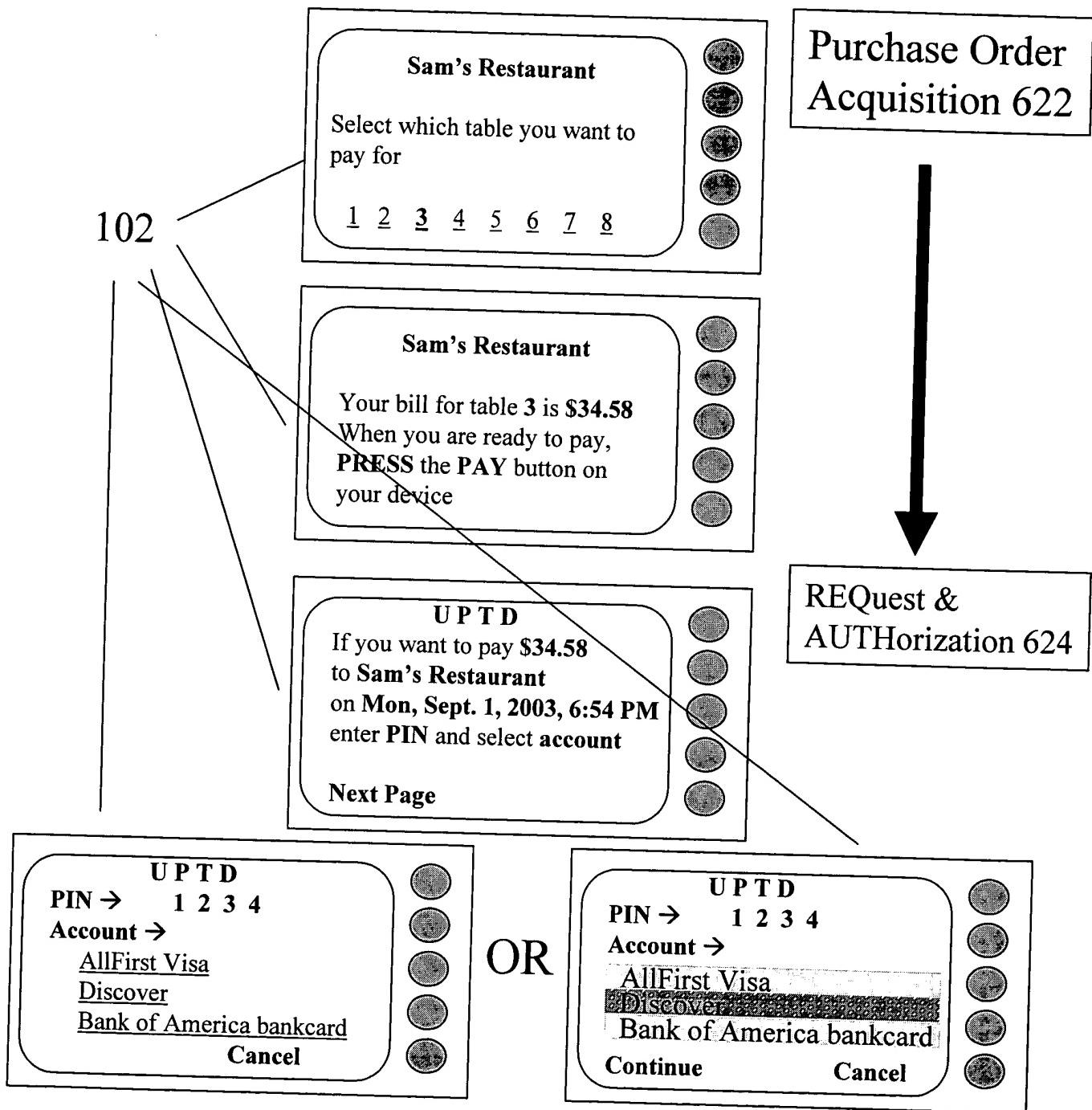


Figure 53

Physical Goods Purchase II, example 630

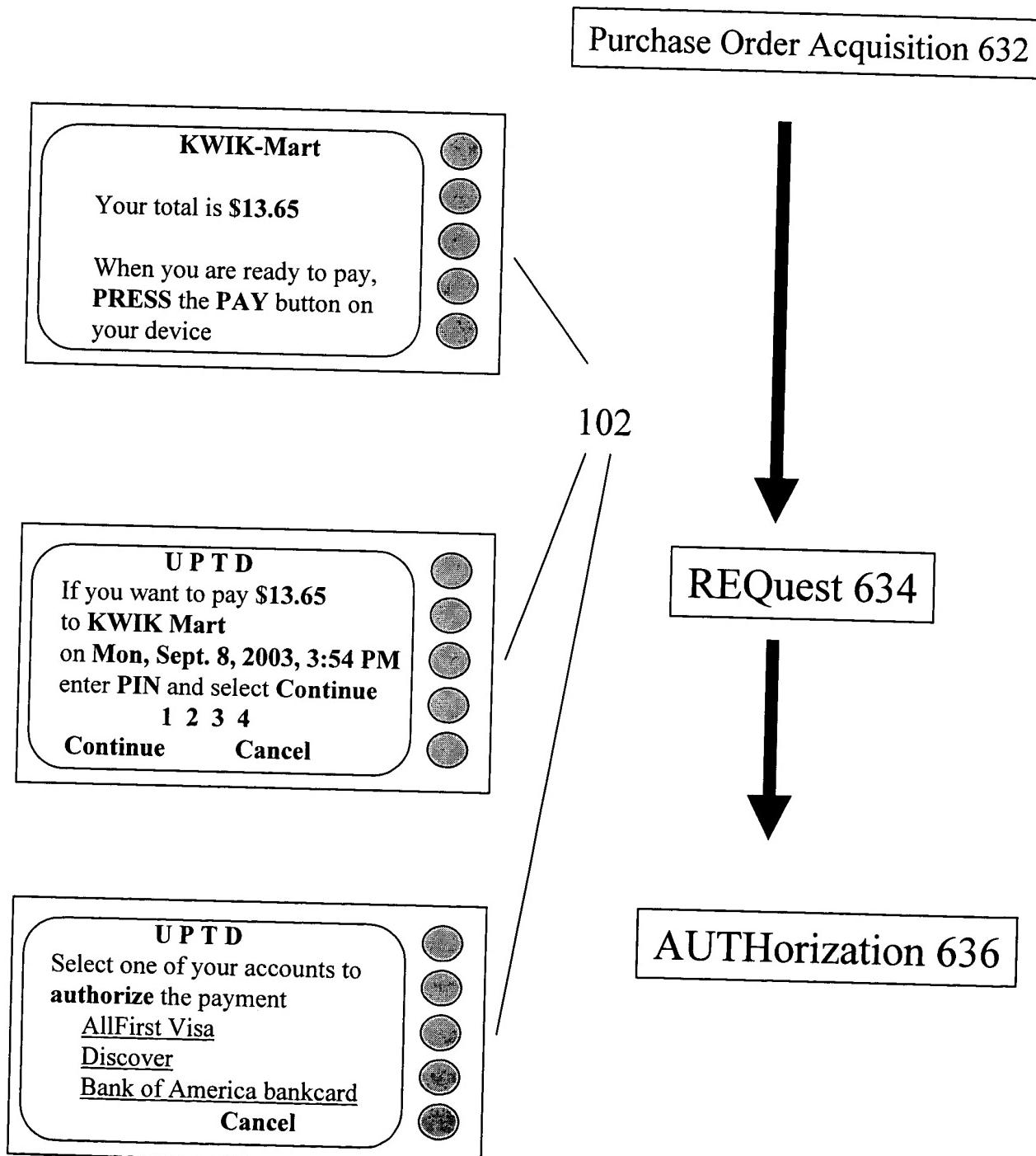


Figure 54

Service Purchase I, example 638

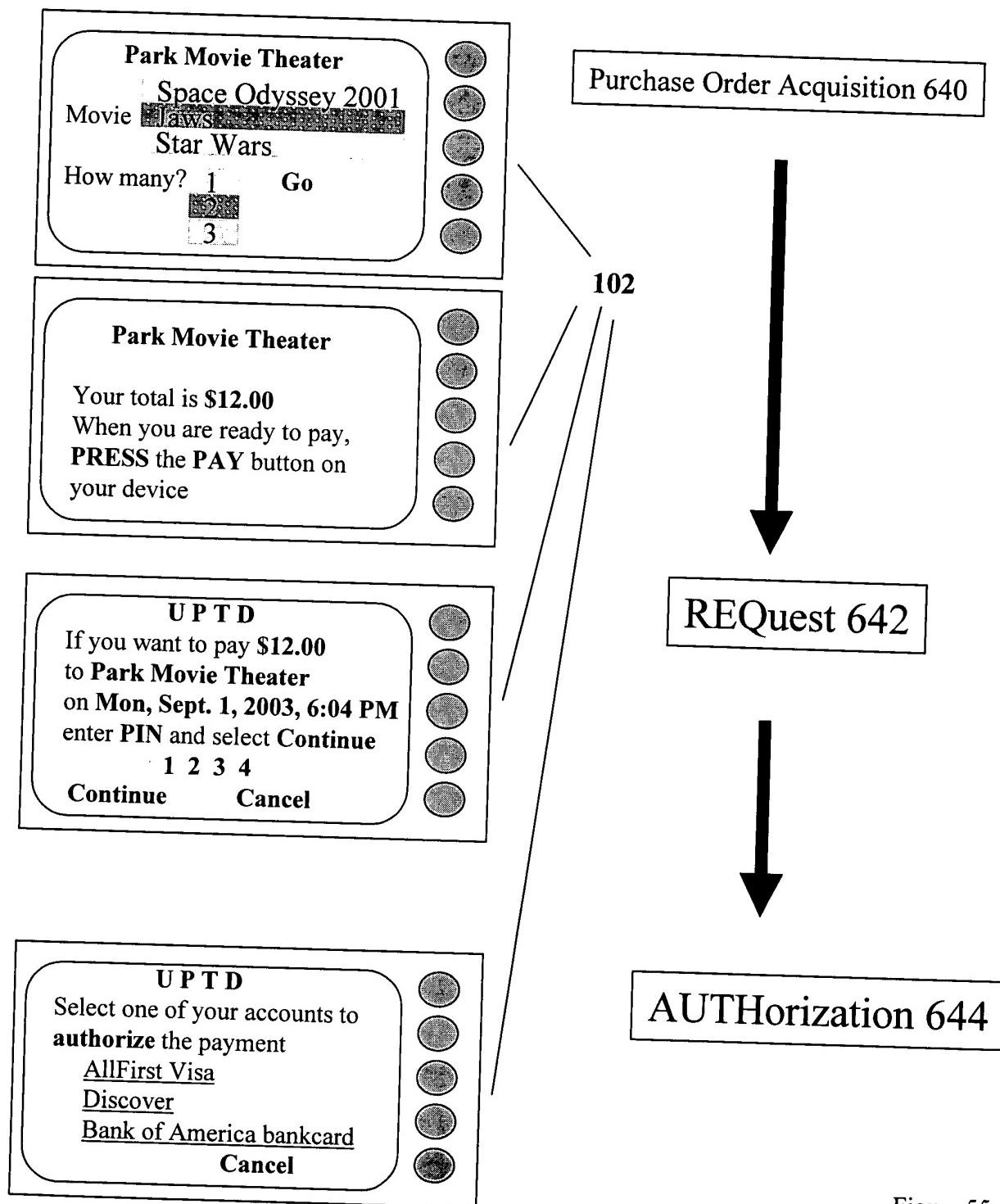


Figure 55

Service Purchase I – token verification and consumption, example 650

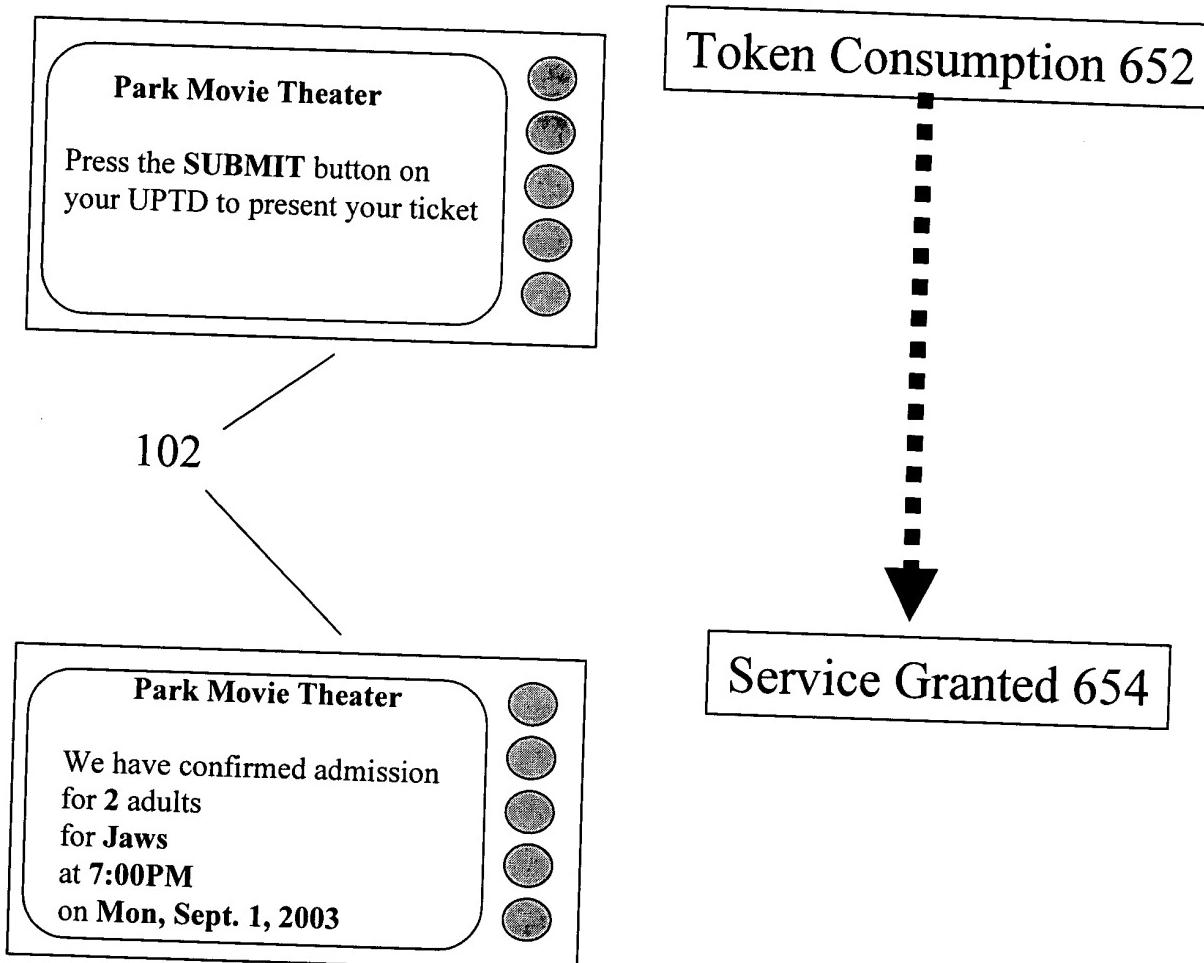


Figure 56

1100

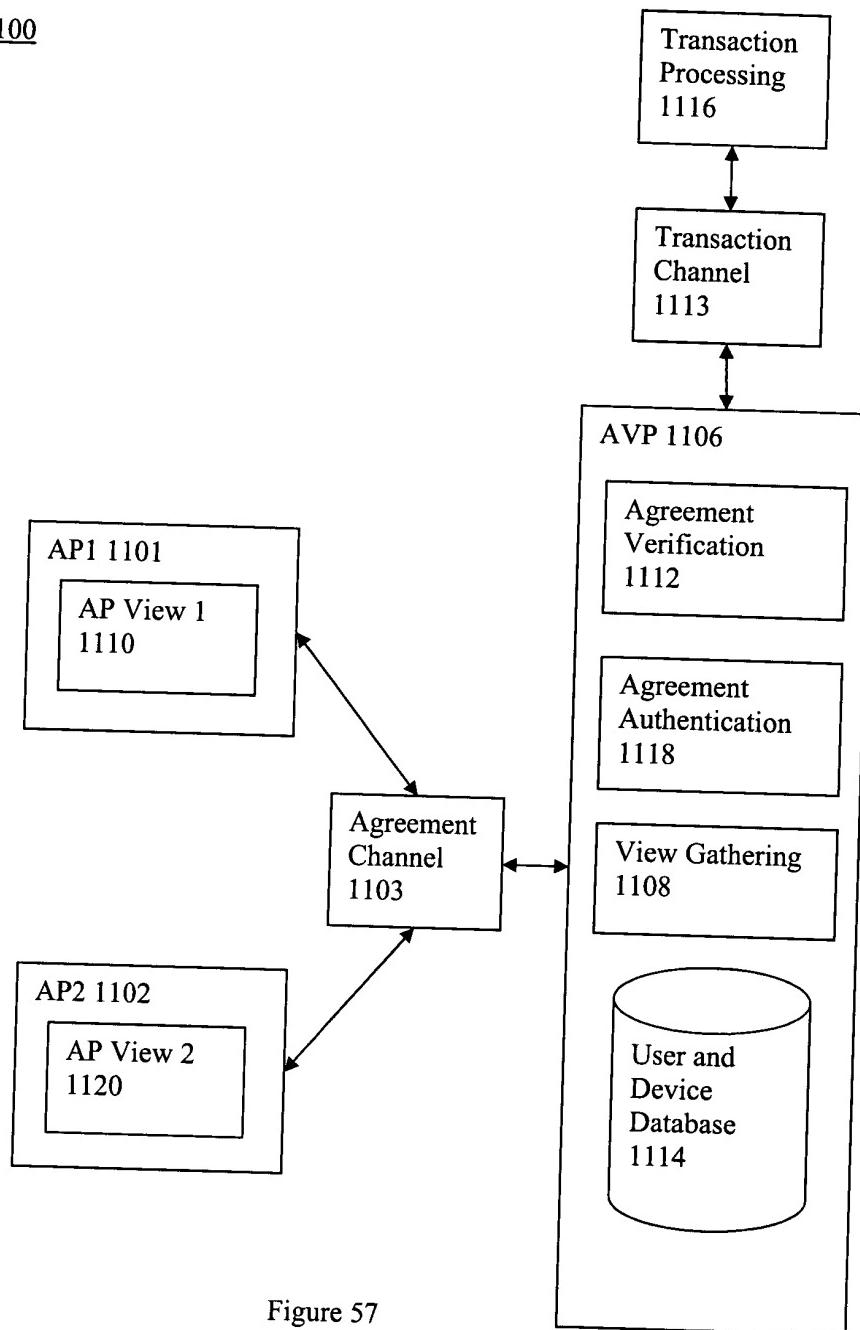


Figure 57

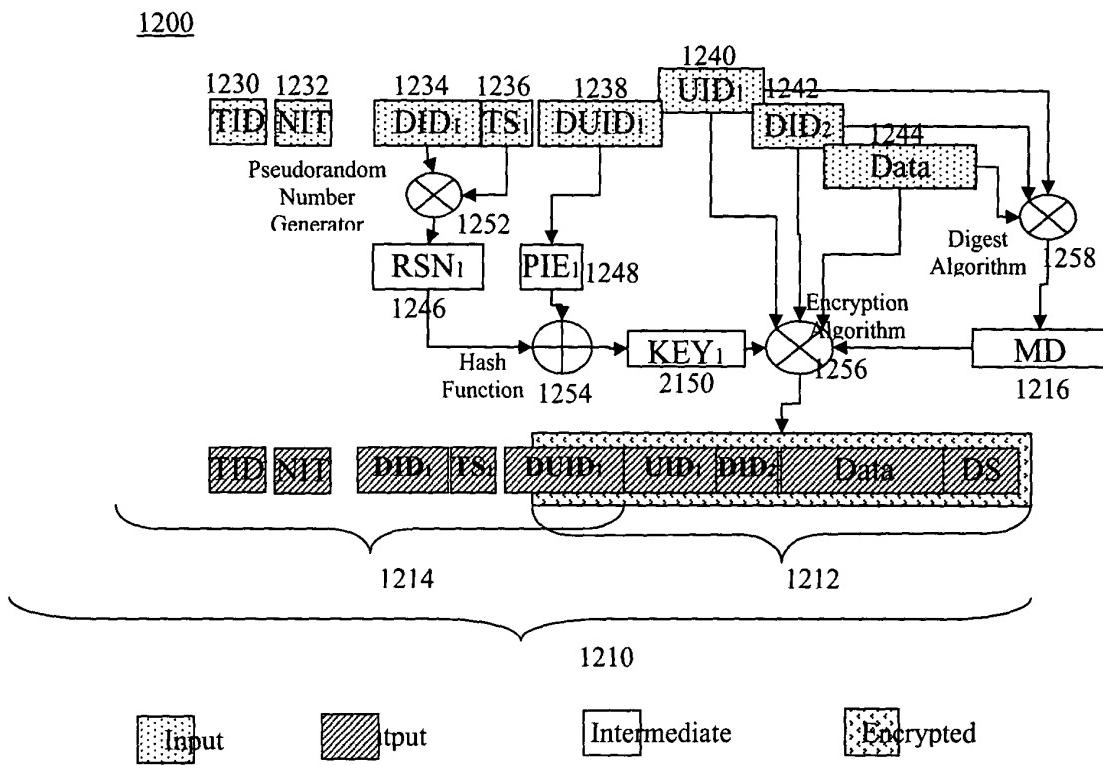


Figure 58

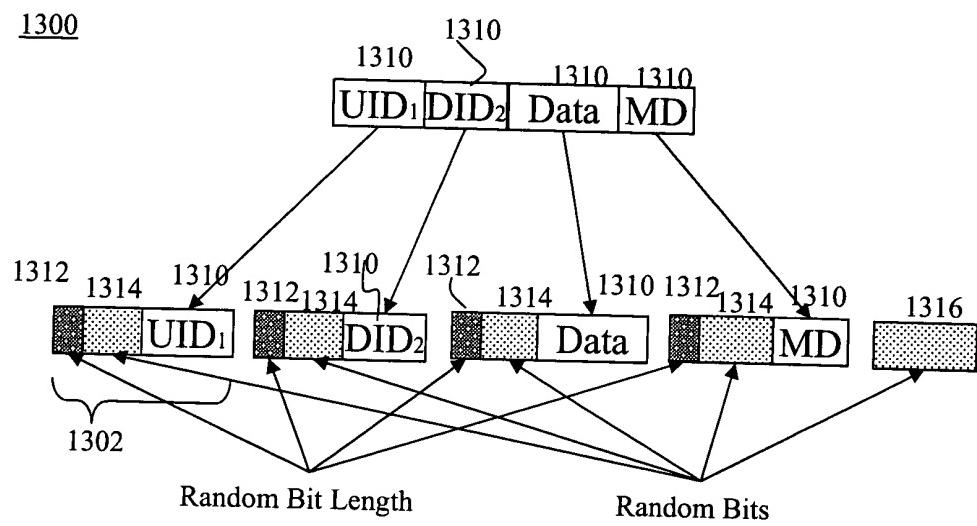


Figure 59

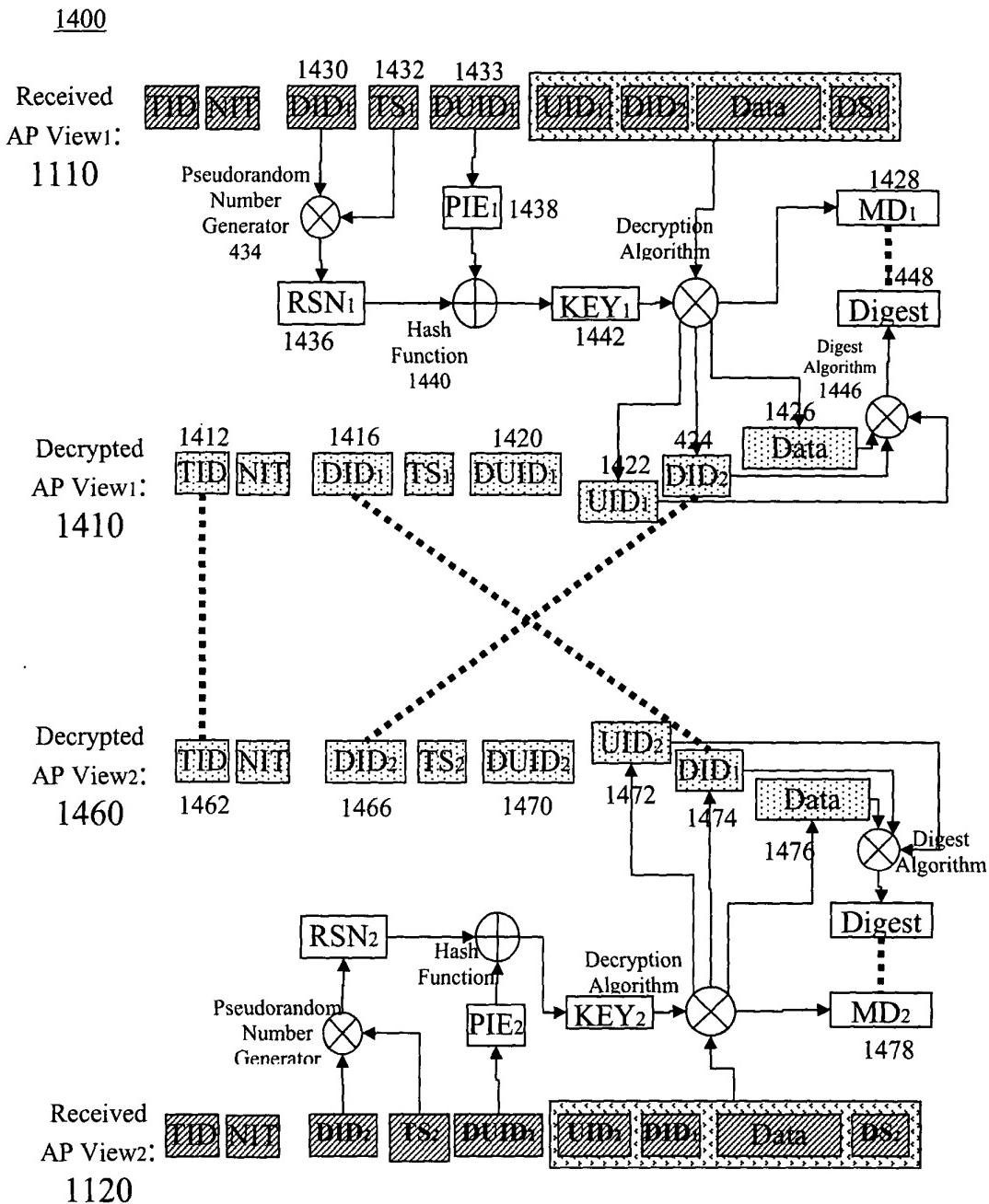


Figure 60

1500

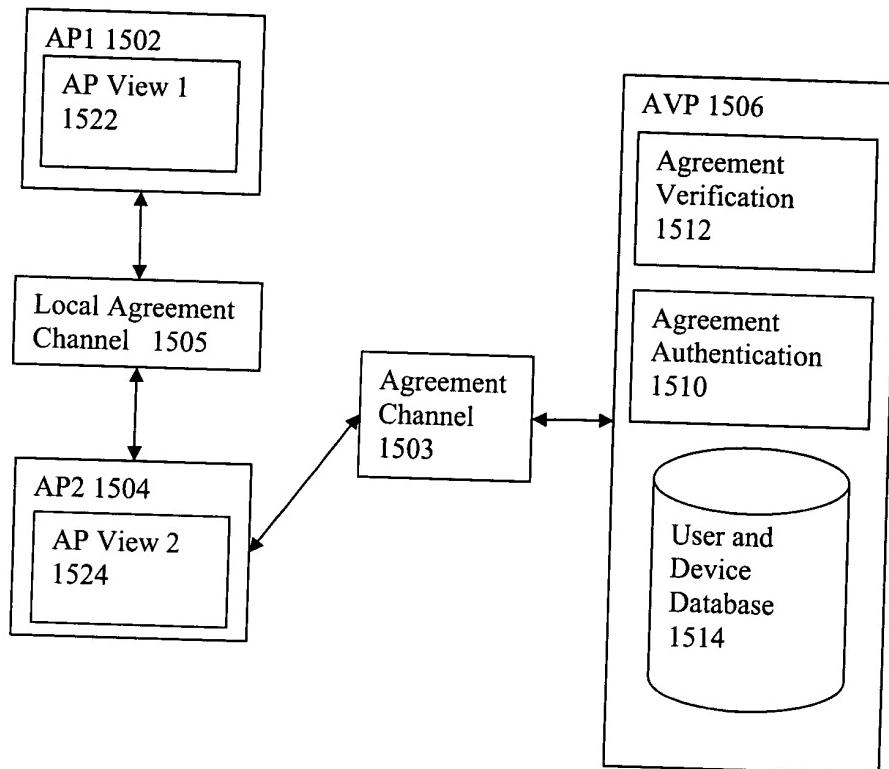


Figure 61

1600

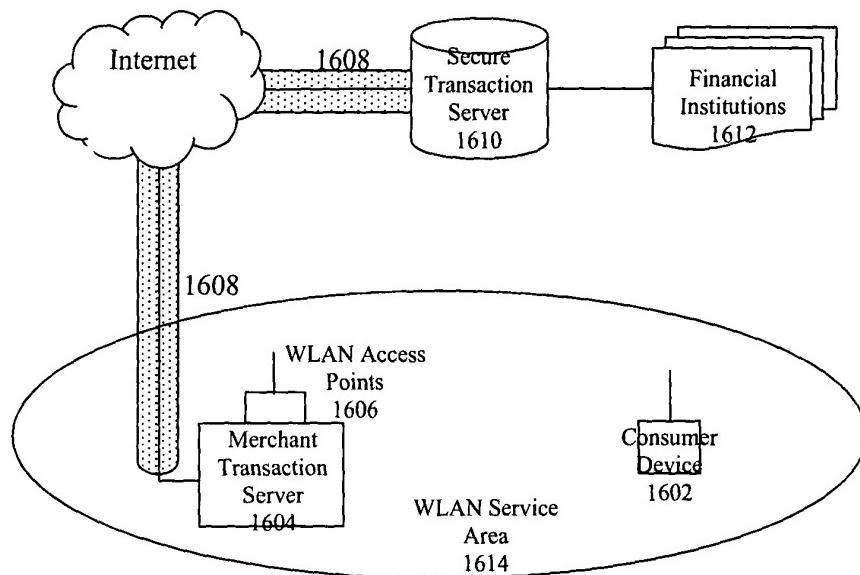


Figure 62

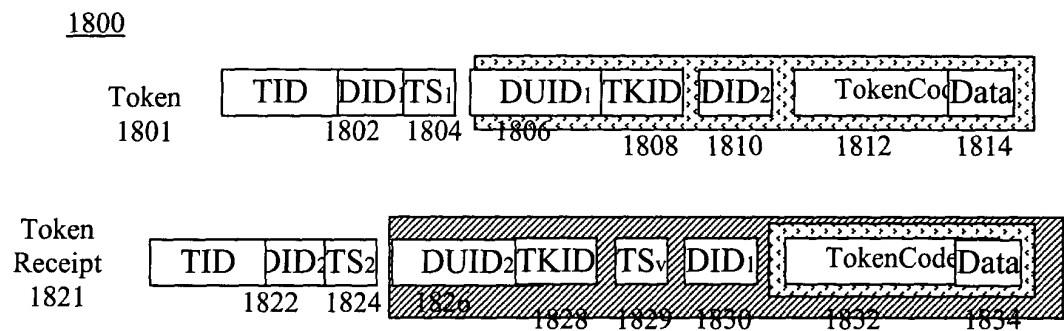


Figure 63